

100 105 110  
Phe Ala Ile Lys Thr Arg Met Leu Phe Leu Pro Cys Ser Asp Asn Val  
115 120 125

<210> 3211

<211> 757

<212> PRT

<213> Homo sapiens

<400> 3211

Met Gln Lys Ser Leu Arg Pro Ile Gly Leu Leu Arg Ala Gln Ser Leu  
1 5 10 15  
Glu Trp Phe Tyr Asn Asn Val Lys Ser Arg Phe Glu Arg Phe Gly Ser  
20 25 30  
Ala Lys Val Leu Lys Asn Leu Tyr Arg Lys His Arg Leu Glu Ser Gly  
35 40 45  
Ala Cys Phe Asp Ile Leu Gly Gly Ser Leu Phe Glu Ser Asn Leu Glu  
50 55 60  
Asn Glu Gly Ser Ile Ser Gly Ser Asp Ser Thr Phe Tyr Arg Gln Ser  
65 70 75 80  
Glu Gly His Ser Val Met Asp Thr Leu Ala Val Ala Leu Arg Val Ala  
85 90 95  
Glu Glu Ala Ile Glu Glu Ala Ile Ser Lys Ala Glu Ala Tyr Gly Asp  
100 105 110  
Ser Leu Asp Lys Gln Asn Glu Ala Ser Tyr Leu Arg Asp His Lys Glu  
115 120 125  
Glu Leu Thr Glu Glu Leu Ala Thr Thr Ile Leu Gln Lys Ile Ile Arg  
130 135 140

Lys Gln Lys Ser Lys Ser Glu Gln Gln Val Glu Glu Glu Pro Gly Trp  
145 150 155 160  
Pro His Pro Gln Ser Cys Ser Thr Lys Val Ala Asp Glu Gly Thr Ser  
165 170 175  
Ala Ser Pro Gly Gly Tyr Arg Ala Pro Ala Ala Leu Trp Arg Ser Gln  
180 185 190  
Ser Ala Phe Ser Ile Thr Gly Glu Glu Ala Leu Lys Thr Pro Pro Val  
195 200 205  
Glu Ala Pro Ser Arg Gln Pro Arg Asp Gln Gly Gln His Pro Arg Ala  
210 215 220  
Glu Ser Ala Leu Pro Ser Trp Lys Ser Val Asp Arg Leu Asp Glu Thr  
225 230 235 240  
Asn Leu Ala Pro Val Leu Gln Ser Pro Asp Gly Asn Trp Val Ala Leu  
245 250 255  
Lys Asp Gly Ala Pro Pro Pro Thr Arg Leu Leu Ala Lys Pro Lys Ser  
260 265 270  
Gly Thr Phe Gln Ala Leu Glu Val Ala Ser Ser Val Ala Ser Ala Tyr  
275 280 285  
Asp Glu Met Gly Ser Asp Ser Glu Glu Asp Phe Asp Trp Ser Glu Ala  
290 295 300  
Leu Ser Lys Leu Cys Pro Arg Ser Arg Ala Leu Pro Arg Asn Pro Gln  
305 310 315 320  
Pro Gln Pro Thr Gln Ala Gln Ser Ser Asp Gln Gly Pro Ile Ala Ala  
325 330 335  
Ser Pro Ser Ser Ala Leu Ser Pro Asn Pro Glu Ala Met Cys Ser Asp  
340 345 350  
Ser Glu Thr Ser Ser Ala Gly Ser Ser Arg Glu Val Gly His Gln Ala  
355 360 365  
Arg Leu Ser Trp Leu Gln Arg Lys Ala Pro Arg Asn Pro Ala Ala Glu

370 375 380  
Lys Met Arg Leu His Gly Glu Leu Asp Val Asn Phe Asn Pro Gln Leu  
385 390 395 400  
Ala Ser Arg Glu Thr Ser Asp Ser Ser Glu Pro Glu Glu Ala Pro His  
405 410 415  
Thr Thr Asp Arg Arg Ala Arg Arg Trp Arg Arg Ala Arg Leu Gly Ser  
420 425 430  
Glu Glu Pro Ser Lys Glu Pro Ser Ser Pro Ser Ala Gln Leu Arg Asp  
435 440 445  
Leu Asp Thr His Gln Val Ser Asp Asp Leu Ser Glu Thr Asp Ile Ser  
450 455 460  
Asn Glu Ala Arg Asp Pro Gln Thr Leu Thr Asp Thr Thr Glu Glu Lys  
465 470 475 480  
Arg Arg Asn Arg Leu Tyr Glu Leu Ala Met Lys Met Ser Glu Lys Glu  
485 490 495  
Thr Ser Ser Gly Glu Asp Gln Glu Ser Glu Pro Lys Thr Glu Ser Glu  
500 505 510  
Asn Gln Lys Glu Ser Leu Ser Ser Glu Asp Asn Ser Gln Ser Val Gln  
515 520 525  
Glu Glu Leu Lys Lys Lys Phe Ser Ala Val Ser Leu Cys Asn Ile Ser  
530 535 540  
Thr Glu Val Leu Lys Val Ile Asn Ala Thr Glu Glu Leu Ile Ala Gly  
545 550 555 560  
Ser Thr Gly Pro Trp Glu Ser Pro Gln Val Pro Pro Asp Arg Gln Lys  
565 570 575  
Gly Met Phe Pro Arg Gly Thr Asp Gln Val Arg Leu Asp Glu Gln Leu  
580 585 590  
Thr Ser Leu Glu Glu Asn Val Tyr Leu Ala Ala Gly Thr Val Tyr Gly  
595 600 605

Leu Glu Thr Gln Leu Thr Glu Leu Glu Asp Ala Ala Arg Cys Ile His  
610 615 620  
Ser Gly Thr Asp Glu Thr His Leu Ala Asp Leu Glu Asp Gln Val Ala  
625 630 635 640  
Thr Ala Ala Ala Gln Val His His Ala Glu Leu Gln Ile Ser Asp Ile  
645 650 655  
Glu Ser Arg Ile Ser Ala Leu Thr Ile Ala Gly Leu Asn Ile Ala Pro  
660 665 670  
Cys Val Arg Phe Thr Arg Arg Arg Asp Gln Lys Gln Arg Thr Gln Val  
675 680 685  
Gln Thr Ile Asp Thr Ser Arg Gln Gln Arg Arg Lys Leu Pro Ala Pro  
690 695 700  
Pro Val Lys Ala Glu Lys Ile Glu Thr Ser Ser Val Thr Thr Ile Lys  
705 710 715 720  
Thr Phe Asn His Asn Phe Ile Leu Gln Gly Ser Ser Thr Asn Arg Thr  
725 730 735  
Lys Glu Arg Lys Gly Thr Thr Lys Asp Leu Met Glu Pro Ala Leu Glu  
740 745 750  
Ser Ala Val Met Tyr  
755

&lt;210&gt; 3212

&lt;211&gt; 714

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3212

Met Leu His Leu Lys Val Gln Phe Leu Asp Asp Ser Gln Lys Ile Phe

1	5	10	15												
Val	Val	Asp	Gln	Lys	Ser	Ser	Gly	Lys	Ala	Leu	Phe	Asn	Leu	Ser	Cys
20	25	30													
Ser	His	Leu	Asn	Leu	Ala	Glu	Lys	Glu	Tyr	Phe	Gly	Leu	Glu	Phe	Cys
35	40	45													
Ser	His	Ser	Gly	Asn	Asn	Val	Trp	Leu	Glu	Leu	Leu	Lys	Pro	Ile	Thr
50	55	60													
Lys	Gln	Val	Lys	Asn	Pro	Lys	Glu	Ile	Val	Phe	Lys	Phe	Met	Val	Lys
65	70	75	80												
Phe	Phe	Pro	Val	Asp	Pro	Gly	His	Leu	Arg	Glu	Glu	Leu	Thr	Arg	Tyr
85	90	95													
Leu	Phe	Thr	Leu	Gln	Ile	Lys	Lys	Asp	Leu	Ala	Leu	Gly	Arg	Leu	Pro
100	105	110													
Cys	Ser	Asp	Asn	Cys	Thr	Ala	Leu	Met	Val	Ser	His	Ile	Leu	Gln	Ser
115	120	125													
Glu	Leu	Gly	Asp	Phe	His	Glu	Glu	Thr	Asp	Arg	Lys	His	Leu	Ala	Gln
130	135	140													
Thr	Arg	Tyr	Leu	Pro	Asn	Gln	Asp	Cys	Leu	Glu	Gly	Lys	Ile	Met	His
145	150	155	160												
Phe	His	Gln	Lys	His	Ile	Gly	Arg	Ser	Pro	Ala	Glu	Ser	Asp	Ile	Leu
165	170	175													
Leu	Leu	Asp	Ile	Ala	Arg	Lys	Leu	Asp	Met	Tyr	Gly	Ile	Arg	Pro	His
180	185	190													
Pro	Ala	Ser	Asp	Gly	Glu	Gly	Met	Gln	Ile	His	Leu	Ala	Val	Ala	His
195	200	205													
Met	Gly	Val	Leu	Val	Leu	Arg	Gly	Asn	Thr	Lys	Ile	Asn	Thr	Phe	Asn
210	215	220													
Trp	Ala	Lys	Ile	Arg	Lys	Leu	Ser	Phe	Lys	Arg	Lys	His	Phe	Leu	Ile
225	230	235	240												

Lys Leu His Ala Asn Ile Leu Val Leu Cys Lys Asp Thr Leu Glu Phe  
                             245                            250                            255  
 Thr Met Ala Ser Arg Asp Ala Cys Lys Ala Phe Trp Lys Thr Cys Val  
                             260                            265                            270  
 Glu Tyr His Ala Phe Phe Arg Leu Ser Glu Glu Pro Lys Ser Lys Pro  
                             275                            280                            285  
 Lys Thr Leu Leu Cys Ser Lys Gly Ser Ser Phe Arg Tyr Ser Gly Arg  
                             290                            295                            300  
 Thr Gln Arg Gln Leu Leu Glu Tyr Gly Arg Lys Gly Arg Leu Lys Ser  
 305                            310                            315                            320  
 Leu Pro Phe Glu Arg Lys His Tyr Pro Ser Gln Tyr His Glu Arg Gln  
                             325                            330                            335  
 Cys Arg Ser Ser Pro Asp Leu Leu Ser Asp Val Ser Lys Gln Val Glu  
                             340                            345                            350  
 Asp Leu Arg Leu Ala Tyr Gly Gly Gly Tyr Tyr Gln Asn Val Asn Gly  
                             355                            360                            365  
 Val His Ala Ser Glu Pro Val Leu Glu Ser Arg Arg Arg Asn Ser Ala  
                             370                            375                            380  
 Leu Glu Val Thr Phe Ala Thr Glu Leu Glu His Ser Lys Pro Glu Ala  
 385                            390                            395                            400  
 Asp Pro Thr Leu Leu His Gln Ser Gln Ser Ser Ser Ser Phe Pro Phe  
                             405                            410                            415  
 Ile Tyr Met Asp Pro Val Phe Asn Thr Glu Pro Asn Pro Asn Pro Asp  
                             420                            425                            430  
 Pro Arg Asp Ile Phe Ser Glu Arg Ser Ser Leu Ser Ser Phe Gln Thr  
                             435                            440                            445  
 Ser Cys Lys Phe Ser Gly Asn His Met Ser Ile Tyr Ser Gly Leu Thr  
                             450                            455                            460  
 Ser Lys Val Arg Pro Ala Lys Gln Leu Thr Tyr Thr Asp Val Pro Tyr

465                      470                      475                      480  
Ile Pro Cys Thr Gly Gln Gln Val Gly Ile Met Pro Pro Gln Val Phe  
                                 485                      490                      495  
Phe Tyr Val Asp Lys Pro Pro Gln Val Pro Arg Trp Ser Pro Ile Arg  
                                 500                      505                      510  
Ala Glu Glu Arg Thr Ser Pro His Ser Tyr Val Glu Pro Thr Ala Met  
                                 515                      520                      525  
Lys Pro Ala Glu Arg Ser Pro Arg Asn Ile Arg Met Lys Ser Phe Gln  
                                 530                      535                      540  
Gln Asp Leu Gln Val Leu Gln Glu Ala Ile Ala Arg Thr Ser Gly Arg  
545                      550                      555                      560  
Ser Asn Ile Asn Val Gly Leu Glu Glu Glu Asp Pro Asn Leu Glu Asp  
                                 565                      570                      575  
Ala Phe Val Cys Asn Ile Gln Glu Gln Thr Pro Lys Arg Ser Gln Ser  
                                 580                      585                      590  
Gln Ser Asp Met Lys Thr Ile Arg Phe Pro Phe Gly Ser Glu Phe Arg  
                                 595                      600                      605  
Pro Leu Gly Pro Cys Pro Ala Leu Ser His Lys Ala Asp Leu Phe Thr  
                                 610                      615                      620  
Asp Met Phe Ala Glu Gln Glu Leu Pro Ala Val Leu Met Asp Gln Ser  
625                      630                      635                      640  
Thr Ala Glu Arg Tyr Val Ala Ser Glu Ser Ser Asp Ser Glu Ser Glu  
                                 645                      650                      655  
Ile Leu Lys Pro Asp Tyr Tyr Ala Leu Tyr Gly Lys Glu Ile Arg Ser  
                                 660                      665                      670  
Pro Met Ala Arg Ile Arg Leu Ser Ser Gly Ser Leu Gln Leu Asp Glu  
                                 675                      680                      685  
Glu Asp Glu Asp Ala Tyr Phe Asn Thr Pro Thr Ala Glu Asp Arg Thr  
                                 690                      695                      700

Ser Leu Lys Pro Cys Asn Tyr Phe Leu Ala

705

710

<210> 3213

<211> 393

<212> PRT

<213> Homo sapiens

<400> 3213

Met Glu Gln Cys Ala Cys Val Glu Arg Glu Leu Asp Lys Val Leu Gln

1

5

10

15

Lys Phe Leu Thr Tyr Gly Gln His Cys Glu Arg Ser Leu Glu Glu Leu

20

25

30

Leu His Tyr Val Gly Gln Leu Arg Ala Glu Leu Ala Ser Ala Ala Leu

35

40

45

Gln Gly Thr Pro Leu Ser Ala Thr Leu Ser Leu Val Met Ser Gln Cys

50

55

60

Cys Arg Lys Ile Lys Asp Thr Val Gln Lys Leu Ala Ser Asp His Lys

65

70

75

80

Asp Ile His Ser Ser Val Ser Arg Val Gly Lys Ala Ile Asp Arg Asn

85

90

95

Phe Asp Ser Glu Ile Cys Gly Val Val Ser Asp Ala Val Trp Asp Ala

100

105

110

Arg Glu Gln Gln Gln Gln Ile Leu Gln Met Ala Ile Val Glu His Leu

115

120

125

Tyr Gln Gln Gly Met Leu Ser Val Ala Glu Glu Leu Cys Gln Glu Ser

130

135

140

Thr Leu Asn Val Asp Leu Asp Phe Lys Gln Pro Phe Leu Glu Leu Asn

145                      150                      155                      160  
Arg Ile Leu Glu Ala Leu His Glu Gln Asp Leu Gly Pro Ala Leu Glu  
                         165                      170                      175  
Trp Ala Val Ser His Arg Gln Arg Leu Leu Glu Leu Asn Ser Ser Leu  
                         180                      185                      190  
Glu Phe Lys Leu His Arg Leu His Phe Ile Arg Leu Leu Ala Gly Gly  
                         195                      200                      205  
Pro Ala Lys Gln Leu Glu Ala Leu Ser Tyr Ala Arg His Phe Gln Pro  
                         210                      215                      220  
Phe Ala Arg Leu His Gln Arg Glu Ile Gln Val Met Met Gly Ser Leu  
225                      230                      235                      240  
Val Tyr Leu Arg Leu Gly Leu Glu Lys Ser Pro Tyr Cys His Leu Leu  
                         245                      250                      255  
Asp Ser Ser His Trp Ala Glu Ile Cys Glu Thr Phe Thr Arg Asp Ala  
                         260                      265                      270  
Cys Ser Leu Leu Gly Leu Ser Val Glu Ser Pro Leu Ser Val Ser Phe  
                         275                      280                      285  
Ala Ser Gly Cys Val Ala Leu Pro Val Leu Met Asn Ile Lys Ala Val  
                         290                      295                      300  
Ile Glu Gln Arg Gln Cys Thr Gly Val Trp Asn His Lys Asp Glu Leu  
305                      310                      315                      320  
Pro Ile Glu Ile Glu Leu Gly Met Lys Cys Trp Tyr His Ser Val Phe  
                         325                      330                      335  
Ala Cys Pro Ile Leu Arg Gln Gln Thr Ser Asp Ser Asn Pro Pro Ile  
                         340                      345                      350  
Lys Leu Ile Cys Gly His Val Ile Ser Arg Asp Ala Leu Asn Lys Leu  
                         355                      360                      365  
Ile Asn Gly Gly Lys Leu Lys Cys Pro Tyr Cys Pro Met Glu Gln Asn  
                         370                      375                      380

Pro Ala Asp Gly Lys Arg Ile Ile Phe

385

390

<210> 3214

<211> 161

<212> PRT

<213> Homo sapiens

<400> 3214

Met Thr Gly Phe Lys Ala Ser Lys Asn Arg Val Thr Leu Leu Ser Asp

1

5

10

15

Thr Asn Thr Ala Ala Asp Leu Lys Leu Lys Pro Val Leu Thr Ala His

20

25

30

Ser Glu Asn Leu Arg Ile Leu Lys Asn Cys Ala Lys Ser Thr Val Pro

35

40

45

Met Cys Asn Lys Ala Leu Met Ala Ala Cys Leu Phe Thr Ile Ser Phe

50

55

60

Thr Glu Tyr Leu Lys Pro Thr Thr Glu Asn Tyr Cys Ser Gly Lys Lys

65

70

75

80

Ile Leu Phe Lys Ile Val Leu Leu Phe Asp Asn Gly Pro Gly His Pro

85

90

95

Arg Ala Leu Met Glu Val Cys Lys Glu Met Asn Ala Val Phe Met Pro

100

105

110

Ala Asn Thr Thr Pro Val Leu Tyr Ser Met Asp His Arg Val Ile Leu

115

120

125

Thr Phe Lys Ser Tyr Tyr Leu Arg Asn Lys Phe Cys Lys Ala Ile Ala

130

135

140

Ala Thr His Ser Tyr Ser Cys Asp Gly Ser Gly Gln Ser Lys Leu Lys

145                                      150                                      155                                      160  
Thr

<210> 3215

<211> 352

<212> PRT

<213> Homo sapiens

<400> 3215

Met Asn Thr Ile Val Phe Asn Lys Leu Ser Gly Ala Val Leu Phe Glu  
1                                      5                                      10                                      15  
Asp Gly Gly Ala Ser Glu Arg Glu Arg Gly Gly Arg Pro Tyr Ser Gly  
                                    20                                      25                                      30  
Val Leu Asp Ser Pro His Ala Arg Pro Glu Val Gly Ile Pro Asp Gly  
                                    35                                      40                                      45  
Pro Pro Leu Lys Asp Asn Leu Gly Leu Arg His Arg Arg Thr Gly Ala  
                                    50                                      55                                      60  
Arg Gln Asn Gly Gly Lys Val Arg His Lys Arg Gln Ala Leu Gln Asp  
65                                      70                                      75                                      80  
Met Ala Arg Pro Leu Lys Gln Trp Leu Tyr Lys His Arg Asp Asn Pro  
                                    85                                      90                                      95  
Tyr Pro Thr Lys Thr Glu Lys Ile Leu Leu Ala Leu Gly Ser Gln Met  
                                    100                                      105                                      110  
Thr Leu Val Gln Val Ser Asn Trp Phe Ala Asn Ala Arg Arg Arg Leu  
                                    115                                      120                                      125  
Lys Asn Thr Val Arg Gln Pro Asp Leu Ser Trp Ala Leu Arg Ile Lys  
130                                      135                                      140

Leu Tyr Asn Lys Tyr Val Gln Gly Asn Ala Glu Arg Leu Ser Val Ser  
 145                      150                      155                      160  
 Ser Asp Asp Ser Cys Ser Glu Asp Gly Glu Asn Pro Pro Arg Thr His  
                          165                      170                      175  
 Met Asn Glu Gly Gly Tyr Asn Thr Pro Val His His Pro Val Ile Lys  
                          180                      185                      190  
 Ser Glu Asn Ser Val Ile Lys Ala Gly Val Arg Pro Glu Ser Arg Ala  
                          195                      200                      205  
 Ser Glu Asp Tyr Val Ala Pro Pro Lys Tyr Lys Ser Ser Leu Leu Asn  
                          210                      215                      220  
 Arg Tyr Leu Asn Asp Ser Leu Arg His Val Met Ala Thr Asn Thr Thr  
 225                      230                      235                      240  
 Met Met Gly Lys Thr Arg Gln Arg Asn His Ser Gly Ser Phe Ser Ser  
                          245                      250                      255  
 Asn Glu Phe Glu Glu Glu Leu Val Ser Pro Ser Ser Ser Glu Thr Glu  
                          260                      265                      270  
 Gly Asn Phe Val Tyr Arg Thr Asp Thr Leu Glu Asn Gly Ser Asn Lys  
                          275                      280                      285  
 Gly Glu Ser Ala Ala Asn Arg Lys Gly Pro Ser Lys Asp Asp Thr Tyr  
                          290                      295                      300  
 Trp Lys Glu Ile Asn Ala Ala Met Ala Leu Thr Asn Leu Ala Gln Gly  
 305                      310                      315                      320  
 Lys Asp Lys Leu Gln Gly Thr Thr Ser Cys Ile Ile Gln Lys Ser Ser  
                          325                      330                      335  
 His Ile Ala Glu Val Lys Thr Val Lys Val Pro Leu Val Gln Gln Phe  
                          340                      345                      350

&lt;210&gt; 3216

&lt;211&gt; 1284

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3216

Met His Val Phe Ile Val Gly Met Ser Leu Ser Ser Val Thr Leu Ala

1 5 10 15

Ser Ala Leu Gln Val Arg Gly Glu Ala Leu Ser Glu Glu Glu Ile Trp

20 25 30

Ser Leu Leu Phe Leu Ala Ala Glu Gln Leu Leu Glu Asp Leu Arg Asn

35 40 45

Asp Ser Ser Asp Tyr Val Val Cys Pro Trp Ser Ala Leu Leu Ser Ala

50 55 60

Ala Gly Ser Leu Ser Phe Gln Gly Arg Val Ser His Ile Glu Ala Ala

65 70 75 80

Pro Phe Lys Ala Pro Glu Leu Leu Gln Gly Gln Ser Glu Asp Glu Gln

85 90 95

Pro Asp Ala Ser Gln Pro Leu Gln Leu Cys Glu Pro Leu His Ser Ile

100 105 110

Leu Leu Thr Met Cys Glu Asp Gln Pro His Arg Arg Cys Thr Leu Gln

115 120 125

Ser Val Leu Glu Ala Cys Arg Val His Glu Lys Glu Val Ser Val Tyr

130 135 140

Pro Ala Pro Ala Gly Leu His Ile Arg Arg Leu Val Gly Leu Val Leu

145 150 155 160

Gly Thr Ile Ser Glu Val Glu Lys Arg Val Val Glu Glu Ser Ser Ser

165 170 175

Val Gln Gln Asn Arg Ser Tyr Leu Leu Arg Lys Arg Leu Arg Gly Thr

180 185 190

Ser Ser Glu Ser Pro Ala Ala Gln Ala Pro Glu Cys Leu His Pro Cys  
195 200 205

Arg Val Ser Glu Arg Ser Thr Glu Thr Gln Ser Ser Pro Glu Pro His  
210 215 220

Trp Ser Thr Leu Thr His Ser His Cys Ser Leu Leu Val Asn Arg Ala  
225 230 235 240

Leu Pro Gly Ala Asp Pro Gln Asp Gln Gln Ala Gly Arg Arg Leu Ser  
245 250 255

Ser Gly Ser Val His Ser Ala Ala Asp Ser Ser Trp Pro Thr Thr Pro  
260 265 270

Ser Gln Arg Gly Phe Leu Gln Arg Arg Ser Lys Phe Ser Arg Pro Glu  
275 280 285

Phe Ile Leu Leu Ala Gly Glu Ala Pro Met Thr Leu His Leu Pro Gly  
290 295 300

Ser Val Val Thr Lys Lys Gly Lys Ser Tyr Leu Ala Leu Arg Asp Leu  
305 310 315 320

Cys Val Val Leu Leu Asn Gly Gln His Leu Glu Val Lys Cys Asp Val  
325 330 335

Glu Ser Thr Val Gly Ala Val Phe Asn Ala Val Thr Ser Phe Ala Asn  
340 345 350

Leu Glu Glu Leu Thr Tyr Phe Gly Leu Ala Tyr Met Lys Ser Lys Glu  
355 360 365

Phe Phe Phe Leu Asp Ser Glu Thr Arg Leu Cys Lys Ile Ala Pro Glu  
370 375 380

Gly Trp Arg Glu Gln Pro Gln Lys Thr Ser Met Asn Thr Phe Thr Leu  
385 390 395 400

Phe Leu Arg Ile Lys Phe Phe Val Ser His Tyr Gly Leu Leu Gln His  
405 410 415

Ser Leu Thr Arg His Gln Phe Tyr Leu Gln Leu Arg Lys Asp Ile Leu

420 425 430  
Glu Glu Arg Leu Tyr Cys Asn Glu Glu Ile Leu Leu Gln Leu Gly Val  
435 440 445  
Leu Ala Leu Gln Ala Glu Phe Gly Asn Tyr Pro Lys Glu Val Glu Ser  
450 455 460  
Lys Pro Tyr Phe His Val Glu Asp Tyr Ile Pro Ala Ser Leu Ile Glu  
465 470 475 480  
Arg Met Thr Ala Leu Arg Val Gln Val Glu Val Ser Glu Met His Arg  
485 490 495  
Leu Ser Ser Ala Leu Trp Gly Glu Asp Ala Glu Leu Glu Phe Leu Arg  
500 505 510  
Val Thr Gln Gln Leu Pro Glu Tyr Gly Val Leu Val His Gln Val Phe  
515 520 525  
Ser Glu Lys Arg Arg Pro Glu Glu Glu Met Ala Leu Gly Ile Cys Ala  
530 535 540  
Lys Gly Val Ile Val Tyr Glu Val Lys Asn Asn Ser Arg Ile Ala Met  
545 550 555 560  
Leu Arg Phe Gln Trp Arg Glu Thr Gly Lys Ile Ser Thr Tyr Gln Lys  
565 570 575  
Lys Phe Thr Ile Thr Ser Ser Val Thr Gly Lys Lys His Thr Phe Val  
580 585 590  
Thr Asp Ser Ala Lys Thr Ser Lys Tyr Leu Leu Asp Leu Cys Ser Ala  
595 600 605  
Gln His Gly Phe Asn Ala Gln Met Gly Ser Gly Gln Pro Ser His Val  
610 615 620  
Leu Phe Asp His Asp Lys Phe Val Gln Met Ala Asn Leu Ser Pro Ala  
625 630 635 640  
His Gln Ala Arg Ser Lys Pro Leu Ile Trp Ile Gln Arg Leu Ser Cys  
645 650 655

Ser Glu Asn Glu Leu Phe Val Ser Arg Leu Gln Gly Ala Ala Gly Gly  
660 665 670  
Leu Leu Ser Thr Ser Met Asp Asn Phe Asn Val Asp Gly Ser Lys Glu  
675 680 685  
Ala Gly Ala Glu Gly Ile Gly Arg Ser Pro Cys Thr Gly Arg Glu Gln  
690 695 700  
Leu Lys Ser Ala Cys Val Ile Gln Lys Pro Met Thr Trp Asp Ser Leu  
705 710 715 720  
Ser Gly Pro Pro Val Gln Ser Met His Ala Gly Ser Lys Asn Asn Arg  
725 730 735  
Arg Lys Ser Phe Ile Ala Glu Pro Gly Arg Glu Ile Val Arg Val Thr  
740 745 750  
Leu Lys Arg Asp Pro His Arg Gly Phe Gly Phe Val Ile Asn Glu Gly  
755 760 765  
Glu Tyr Ser Gly Gln Ala Asp Pro Gly Ile Phe Ile Ser Ser Ile Ile  
770 775 780  
Pro Gly Gly Pro Ala Glu Lys Ala Lys Thr Ile Lys Pro Gly Gly Gln  
785 790 795 800  
Ile Leu Ala Leu Asn His Ile Ser Leu Glu Gly Phe Thr Phe Asn Met  
805 810 815  
Ala Val Arg Met Ile Gln Asn Ser Pro Asp Asn Ile Glu Leu Ile Ile  
820 825 830  
Ser Gln Ser Lys Gly Val Gly Gly Asn Asn Pro Asp Glu Glu Lys Asn  
835 840 845  
Gly Thr Ala Asn Ser Gly Val Ser Ser Thr Asp Ile Leu Ser Phe Gly  
850 855 860  
Tyr Gln Gly Ser Leu Ser Ser His Thr Gln Asp Gln Asp Arg Asn Thr  
865 870 875 880  
Glu Glu Leu Asp Met Ala Gly Val Gln Ser Leu Val Pro Arg Leu Arg

885 890 895  
His Gln Leu Ser Phe Leu Pro Leu Lys Gly Ala Gly Ser Ser Cys Pro  
900 905 910  
Pro Ser Pro Pro Glu Ile Ser Ala Gly Glu Ile Tyr Phe Val Glu Leu  
915 920 925  
Val Lys Glu Asp Gly Thr Leu Gly Phe Ser Val Thr Gly Gly Ile Asn  
930 935 940  
Thr Ser Val Pro Tyr Gly Gly Ile Tyr Val Lys Ser Ile Val Pro Gly  
945 950 955 960  
Gly Pro Ala Ala Lys Glu Gly Gln Ile Leu Gln Gly Asp Arg Leu Leu  
965 970 975  
Gln Val Asp Gly Val Ile Leu Cys Gly Leu Thr His Lys Gln Ala Val  
980 985 990  
Gln Cys Leu Lys Gly Pro Gly Gln Val Ala Arg Leu Val Leu Glu Arg  
995 1000 1005  
Arg Val Pro Arg Ser Thr Gln Gln Cys Pro Ser Ala Asn Asp Ser Met  
1010 1015 1020  
Gly Asp Glu Arg Thr Ala Val Ser Leu Val Thr Ala Leu Pro Gly Arg  
1025 1030 1035 1040  
Pro Ser Ser Cys Val Ser Val Thr Asp Gly Pro Lys Phe Glu Val Lys  
1045 1050 1055  
Leu Lys Lys Asn Ala Asn Gly Leu Gly Phe Ser Phe Val Gln Met Glu  
1060 1065 1070  
Lys Glu Ser Cys Ser His Leu Lys Ser Asp Leu Val Arg Ile Lys Arg  
1075 1080 1085  
Leu Phe Pro Gly Gln Pro Ala Glu Glu Asn Gly Ala Ile Ala Ala Gly  
1090 1095 1100  
Asp Ile Ile Leu Ala Val Asn Gly Arg Ser Thr Glu Gly Leu Ile Phe  
1105 1110 1115 1120

Gln Glu Val Leu His Leu Leu Arg Gly Ala Pro Gln Glu Val Thr Leu  
1125 1130 1135  
Leu Leu Cys Arg Pro Pro Pro Gly Ala Leu Pro Glu Met Glu Gln Glu  
1140 1145 1150  
Trp Gln Thr Pro Glu Leu Ser Ala Asp Lys Glu Phe Thr Arg Ala Thr  
1155 1160 1165  
Cys Thr Asp Ser Cys Thr Ser Pro Ile Leu Asp Gln Glu Asp Ser Trp  
1170 1175 1180  
Arg Asp Ser Ala Ser Pro Asp Ala Gly Glu Gly Leu Gly Leu Arg Pro  
1185 1190 1195 1200  
Glu Ser Ser Gln Lys Ala Ile Arg Glu Ala Gln Trp Gly Gln Asn Arg  
1205 1210 1215  
Glu Arg Pro Trp Ala Ser Ser Leu Thr His Ser Pro Glu Ser His Pro  
1220 1225 1230  
His Leu Cys Lys Leu His Gln Glu Arg Asp Glu Ser Thr Leu Ala Thr  
1235 1240 1245  
Ser Leu Glu Lys Asp Val Arg Gln Asn Cys Tyr Ser Val Cys Asp Ile  
1250 1255 1260  
Met Arg Leu Gly Arg Tyr Ser Phe Ser Ser Pro Leu Thr Arg Leu Ser  
1265 1270 1275 1280  
Thr Asp Ile Phe

&lt;210&gt; 3217

&lt;211&gt; 971

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3217

Met	Gly	Val	Ala	Gly	Arg	Asn	Arg	Pro	Gly	Ala	Ala	Trp	Ala	Val	Leu
1				5					10					15	
Leu	Leu	Leu	Leu	Leu	Leu	Pro	Pro	Leu	Leu	Leu	Leu	Ala	Gly	Ala	Val
				20					25					30	
Pro	Pro	Gly	Arg	Gly	Arg	Ala	Ala	Gly	Pro	Gln	Glu	Asp	Val	Asp	Glu
		35						40						45	
Cys	Ala	Gln	Gly	Leu	Asp	Asp	Cys	His	Ala	Asp	Ala	Leu	Cys	Gln	Asn
	50						55					60			
Thr	Pro	Thr	Ser	Tyr	Lys	Cys	Ser	Cys	Lys	Pro	Gly	Tyr	Gln	Gly	Glu
65					70					75				80	
Gly	Arg	Gln	Cys	Glu	Asp	Ile	Asp	Glu	Cys	Gly	Asn	Glu	Leu	Asn	Gly
				85						90				95	
Gly	Cys	Val	His	Asp	Cys	Leu	Asn	Ile	Pro	Gly	Asn	Tyr	Arg	Cys	Thr
				100					105					110	
Cys	Phe	Asp	Gly	Phe	Met	Leu	Ala	His	Asp	Gly	His	Asn	Cys	Leu	Asp
		115						120						125	
Val	Asp	Glu	Cys	Leu	Glu	Asn	Asn	Gly	Gly	Cys	Gln	His	Thr	Cys	Val
		130						135						140	
Asn	Val	Met	Gly	Ser	Tyr	Glu	Cys	Cys	Cys	Lys	Glu	Gly	Phe	Phe	Leu
145					150					155				160	
Ser	Asp	Asn	Gln	His	Thr	Cys	Ile	His	Arg	Ser	Glu	Glu	Gly	Leu	Ser
				165						170				175	
Cys	Met	Asn	Lys	Asp	His	Gly	Cys	Ser	His	Ile	Cys	Lys	Glu	Ala	Pro
			180							185				190	
Arg	Gly	Ser	Val	Ala	Cys	Glu	Cys	Arg	Pro	Gly	Phe	Glu	Leu	Ala	Lys
		195								200				205	
Asn	Gln	Arg	Asp	Cys	Ile	Leu	Thr	Cys	Asn	His	Gly	Asn	Gly	Gly	Cys
		210								215				220	

出証特 2 0 0 4 - 3 0 5 9 6 6 0

450                      455                      460  
Gly Gly Gly Asp Gly Cys Phe Leu Arg Cys His Ser Gly Ile His Leu  
465                      470                      475                      480  
Ser Ser Gly Leu Gln Gly Ala Tyr Ser Val Thr Cys Gly Ser Ser Ser  
                    485                      490                      495  
Pro Leu Arg Asn Lys Gln Gln Lys Ser Asn Asp Ser Ala Phe Gly Asp  
                    500                      505                      510  
Val Thr Thr Ile Arg Thr Ser Val Thr Phe Lys Leu Asn Glu Gly Lys  
                    515                      520                      525  
Cys Ser Leu Lys Asn Ala Glu Leu Phe Pro Glu Gly Leu Arg Pro Ala  
                    530                      535                      540  
Leu Pro Glu Lys His Ser Ser Val Lys Glu Ser Phe Arg Tyr Val Asn  
545                      550                      555                      560  
Leu Thr Cys Ser Ser Gly Lys Gln Val Pro Gly Ala Pro Gly Arg Pro  
                    565                      570                      575  
Ser Thr Pro Lys Glu Met Phe Ile Thr Val Glu Phe Glu Leu Glu Thr  
                    580                      585                      590  
Asn Gln Lys Glu Val Thr Ala Ser Cys Asp Leu Ser Cys Ile Val Lys  
                    595                      600                      605  
Arg Thr Glu Lys Arg Leu Arg Lys Ala Ile Arg Met Leu Arg Lys Ala  
                    610                      615                      620  
Val His Arg Glu Gln Phe His Leu Gln Leu Ser Gly Met Asn Leu Asp  
625                      630                      635                      640  
Val Ala Lys Lys Pro Pro Arg Thr Ser Glu Arg Gln Ala Glu Ser Cys  
                    645                      650                      655  
Gly Val Gly Gln Gly His Ala Glu Asn Gln Cys Gly Leu Cys Gln Pro  
                    660                      665                      670  
Gly Glu Tyr Ser Ala Asp Gly Phe Ala Pro Cys Gln Leu Cys Ala Leu  
                    675                      680                      685

Gly Thr Phe Gln Pro Glu Ala Gly Arg Thr Ser Cys Phe Pro Cys Gly  
 690 695 700  
 Gly Gly Leu Ala Thr Lys His Gln Gly Ala Thr Ser Phe Gln Asp Cys  
 705 710 715 720  
 Glu Thr Arg Val Gln Cys Ser Pro Gly His Phe Tyr Asn Thr Thr Thr  
 725 730 735  
 His Arg Cys Ile Arg Cys Pro Val Gly Thr Tyr Gln Pro Glu Phe Gly  
 740 745 750  
 Lys Asn Asn Cys Val Ser Cys Pro Gly Asn Thr Thr Thr Asp Phe Asp  
 755 760 765  
 Gly Ser Thr Asn Ile Thr Gln Cys Lys Asn Arg Arg Cys Gly Gly Glu  
 770 775 780  
 Leu Gly Asp Phe Thr Gly Tyr Ile Glu Ser Pro Asn Tyr Pro Gly Asn  
 785 790 795 800  
 Tyr Pro Ala Asn Thr Glu Cys Thr Trp Thr Ile Asn Pro Pro Pro Lys  
 805 810 815  
 Arg Arg Ile Leu Ile Val Val Pro Glu Ile Phe Leu Pro Ile Glu Asp  
 820 825 830  
 Asp Cys Gly Asp Tyr Leu Val Met Arg Lys Thr Ser Ser Ser Asn Ser  
 835 840 845  
 Val Thr Thr Tyr Glu Thr Cys Gln Thr Tyr Glu Arg Pro Ile Ala Phe  
 850 855 860  
 Thr Ser Arg Ser Lys Lys Leu Trp Ile Gln Phe Lys Ser Asn Glu Gly  
 865 870 875 880  
 Asn Ser Ala Arg Gly Phe Gln Gly Pro Tyr Val Thr Tyr Asp Glu Asp  
 885 890 895  
 Tyr Gln Glu Leu Ile Glu Asp Ile Val Arg Asp Gly Arg Leu Tyr Ala  
 900 905 910  
 Ser Glu Asn His Gln Glu Ile Leu Lys Asp Lys Lys Leu Ile Lys Ala

915	920	925
Leu Phe Asp Val Leu Ala His Pro Gln Asn Tyr Phe Lys Tyr Thr Ala		
930	935	940
Gln Glu Ser Arg Glu Met Phe Pro Arg Ser Phe Ile Arg Leu Leu Arg		
945	950	955
Ser Lys Val Ser Arg Phe Leu Arg Pro Tyr Lys		960
965	970	

&lt;210&gt; 3218

&lt;211&gt; 426

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3218

Met Leu Gly Ser Phe Ser Gly Thr Thr Val Pro Ala Leu Leu Asn Ser		
1	5	10
Thr Ser Asn Gln Leu Tyr Leu His Phe Tyr Ser Asp Ile Ser Val Ser		
20	25	30
Ala Ala Gly Phe His Leu Glu Tyr Lys Thr Val Gly Leu Ser Ser Cys		
35	40	45
Pro Glu Pro Ala Val Pro Ser Asn Gly Val Lys Thr Gly Glu Arg Tyr		
50	55	60
Leu Val Asn Asp Val Val Ser Phe Gln Cys Glu Pro Gly Tyr Ala Leu		
65	70	75
Gln Gly His Ala His Ile Ser Cys Met Pro Gly Thr Val Arg Arg Trp		
85	90	95
Asn Tyr Pro Pro Pro Leu Cys Ile Ala Gln Cys Gly Gly Thr Val Glu		
100	105	110

Glu Met Glu Gly Val Ile Leu Ser Leu Gly Phe Pro Gly Asn Tyr Pro  
 115 120 125  
 Ser Asn Met Asp Cys Ser Trp Lys Ile Ala Leu Pro Val Gly Phe Gly  
 130 135 140  
 Ala His Ile Gln Phe Leu Asn Phe Ser Thr Glu Pro Asn His Asp Tyr  
 145 150 155 160  
 Ile Glu Ile Arg Asn Gly Pro Tyr Glu Thr Ser Arg Met Met Gly Arg  
 165 170 175  
 Phe Ser Gly Ser Glu Leu Pro Ser Ser Leu Leu Ser Thr Ser His Glu  
 180 185 190  
 Thr Thr Val Tyr Phe His Ser Asp His Ser Gln Asn Arg Pro Gly Phe  
 195 200 205  
 Lys Leu Glu Tyr Gln Ala Tyr Glu Leu Gln Glu Cys Pro Asp Pro Glu  
 210 215 220  
 Pro Phe Ala Asn Gly Ile Val Arg Gly Ala Gly Tyr Asn Val Gly Gln  
 225 230 235 240  
 Ser Val Thr Phe Glu Cys Leu Pro Gly Tyr Gln Leu Thr Gly His Pro  
 245 250 255  
 Val Leu Thr Cys Gln His Gly Thr Asn Arg Asn Trp Asp His Pro Leu  
 260 265 270  
 Pro Lys Cys Glu Val Pro Cys Gly Gly Asn Ile Thr Ser Ser Asn Gly  
 275 280 285  
 Thr Val Tyr Ser Pro Gly Phe Pro Ser Pro Tyr Ser Ser Ser Gln Asp  
 290 295 300  
 Cys Val Trp Leu Ile Thr Val Pro Ile Gly His Gly Val Arg Leu Asn  
 305 310 315 320  
 Leu Ser Leu Leu Gln Thr Glu Pro Ser Gly Asp Phe Ile Thr Ile Trp  
 325 330 335  
 Asp Gly Pro Gln Gln Thr Ala Pro Arg Leu Gly Val Phe Thr Arg Ser

340	345	350	
Met Ala Lys Lys Thr Val Gln Ser Ser Ser Asn Gln Val Leu Leu Lys			
355	360	365	
Phe His Arg Asp Ala Ala Thr Gly Gly Ile Phe Ala Ile Ala Phe Ser			
370	375	380	
Asp His Cys Arg Tyr Phe Asn Gln Lys Ser Gly Lys Leu Asp Phe Thr			
385	390	395	400
Pro Ser Ser Thr Leu Gly Gln Leu Cys Lys Thr Leu His Arg Ser Leu			
405	410	415	
Pro His Leu Arg Leu Gln Phe Leu His Leu			
420	425		

&lt;210&gt; 3219

&lt;211&gt; 292

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3219

Met Ser Arg Ile Pro Leu Gly Lys Val Leu Leu Arg Asn Val Ile Arg			
1	5	10	15
His Thr Asp Ala His Asn Lys Ile Gln Glu Glu Ser Asp Met Trp Lys			
20	25	30	
Ile Arg Glu Leu Glu Lys Gln Met Glu Asp Ala Tyr Arg Gly Thr Lys			
35	40	45	
Arg Lys Met Leu Pro Ser Ser Ser Ser Arg Met Arg Ser Asp Gly Phe			
50	55	60	
Asp Glu Glu Ser Gln Arg Tyr Tyr Trp Arg Pro Lys Asn Glu Ile Ser			
65	70	75	80

Gly Thr Leu Glu Asp Asp Phe Leu Lys Ala Lys Ser Trp Asn Lys Lys  
85 90 95  
Phe Tyr Asp Tyr Glu Ala Asn Met Pro Asp Arg Trp Gly His Ser Gly  
100 105 110  
Tyr Lys Glu Leu Tyr Pro Glu Glu Phe Glu Thr Asn Ser Asp Gln Gln  
115 120 125  
Asp Ile Thr Asn Gly Lys Lys Thr Ser Pro Gln Val Lys Ser Ser Thr  
130 135 140  
His Glu Ser Arg Lys His Lys Lys Ser Lys Lys Ser His Lys Lys Lys  
145 150 155 160  
Gln Lys Lys Arg Ser His Lys Lys Gln Lys Lys Ser Lys Lys Glu Ala  
165 170 175  
Thr Asp Ile Thr Ala Asp Ser Ser Ser Glu Phe Ser Glu Glu Thr Gly  
180 185 190  
Ala Ser Gly Thr Arg Lys Gly Lys Gln Pro His Lys Arg Lys Lys Lys  
195 200 205  
Ser Arg Lys Lys Ser Leu Lys Lys Pro Ala Leu Phe Leu Glu Ala Glu  
210 215 220  
Ser Asn Thr Ser His Ser Asp Asp Ser Ala Ser Ser Ser Ser Glu Glu  
225 230 235 240  
Ser Glu Glu Arg Asp Thr Lys Lys Thr Lys Arg Lys Lys Arg Glu Lys  
245 250 255  
Lys Ala His Thr Ser Val Ala Asn Asn Glu Ile Gln Glu Arg Thr Asn  
260 265 270  
Lys Arg Thr Asn Trp Lys Val Ala Thr Asp Glu Arg Ser Ala Glu Ser  
275 280 285  
Ser Glu Asp Asp  
290

&lt;210&gt; 3220

&lt;211&gt; 1023

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3220

Met Ser Leu Gly Val Ala Ala Ile Asn Gln Ala Ile Lys Glu Gly Lys

1 5 10 15

Ala Ala Gln Thr Glu Arg Val Leu Arg Asn Pro Ala Val Ala Leu Arg

20 25 30

Gly Val Val Pro Asp Cys Ala Asn Gly Tyr Gln Arg Ala Leu Glu Ser

35 40 45

Ala Met Ala Lys Lys Gln Arg Pro Ala Asp Thr Ala Phe Trp Val Gln

50 55 60

His Asp Met Lys Asp Gly Thr Ala Tyr Tyr Phe His Leu Gln Thr Phe

65 70 75 80

Gln Gly Ile Trp Glu Gln Pro Pro Gly Cys Pro Leu Asn Thr Ser His

85 90 95

Leu Thr Arg Glu Glu Ile Gln Ser Ala Val Thr Lys Val Thr Ala Ala

100 105 110

Tyr Asp Arg Gln Gln Leu Trp Lys Ala Asn Val Gly Phe Val Ile Gln

115 120 125

Leu Gln Ala Arg Leu Arg Gly Phe Leu Val Arg Gln Lys Phe Ala Glu

130 135 140

His Ser His Phe Leu Arg Thr Trp Leu Pro Ala Val Ile Lys Ile Gln

145 150 155 160

Ala His Trp Arg Gly Tyr Arg Gln Arg Lys Ile Tyr Leu Glu Trp Leu

165 170 175

Gln Tyr Phe Lys Ala Asn Leu Asp Ala Ile Ile Lys Ile Gln Ala Trp  
180 185 190  
Ala Arg Met Trp Ala Ala Arg Arg Gln Tyr Leu Arg Arg Leu His Tyr  
195 200 205  
Phe Gln Lys Asn Val Asn Ser Ile Val Lys Ile Gln Ala Phe Phe Arg  
210 215 220  
Ala Arg Lys Ala Gln Asp Asp Tyr Arg Ile Leu Val His Ala Pro His  
225 230 235 240  
Pro Pro Leu Ser Val Val Arg Arg Phe Ala His Leu Leu Asn Gln Ser  
245 250 255  
Gln Gln Asp Phe Leu Ala Glu Ala Glu Leu Leu Lys Leu Gln Glu Glu  
260 265 270  
Val Val Arg Lys Ile Arg Ser Asn Gln Gln Leu Glu Gln Asp Leu Asn  
275 280 285  
Ile Met Asp Ile Lys Ile Gly Leu Leu Val Lys Asn Arg Ile Thr Leu  
290 295 300  
Gln Glu Val Val Ser His Cys Lys Lys Leu Thr Lys Arg Asn Lys Glu  
305 310 315 320  
Gln Leu Ser Asp Met Met Val Leu Asp Lys Gln Lys Gly Leu Lys Ser  
325 330 335  
Leu Ser Lys Glu Lys Arg Gln Lys Leu Glu Ala Tyr Gln His Leu Phe  
340 345 350  
Tyr Leu Leu Gln Thr Gln Pro Ile Tyr Leu Ala Lys Leu Ile Phe Gln  
355 360 365  
Met Pro Gln Asn Lys Thr Thr Lys Phe Met Glu Ala Val Ile Phe Ser  
370 375 380  
Leu Tyr Asn Tyr Ala Ser Ser Arg Arg Glu Ala Tyr Leu Leu Leu Gln  
385 390 395 400  
Leu Phe Lys Thr Ala Leu Gln Glu Glu Ile Lys Ser Lys Val Glu Gln

405	410	415
Pro Gln Asp Val Val Thr Gly Asn Pro Thr Val Val Arg Leu Val Val		
420	425	430
Arg Phe Tyr Arg Asn Gly Arg Gly Gln Ser Ala Leu Gln Glu Ile Leu		
435	440	445
Gly Lys Val Ile Gln Asp Val Leu Glu Asp Lys Val Leu Ser Val His		
450	455	460
Thr Asp Pro Val His Leu Tyr Lys Asn Trp Ile Asn Gln Thr Glu Ala		
465	470	475
Gln Thr Gly Gln Arg Ser His Leu Pro Tyr Asp Val Thr Pro Glu Gln		
485	490	495
Ala Leu Ser His Pro Glu Val Gln Arg Arg Leu Asp Ile Ala Leu Arg		
500	505	510
Asn Leu Leu Ala Met Thr Asp Lys Phe Leu Leu Ala Ile Thr Ser Ser		
515	520	525
Val Asp Gln Ile Pro Tyr Gly Met Arg Tyr Val Ala Lys Val Leu Lys		
530	535	540
Ala Thr Leu Ala Glu Lys Phe Pro Asp Ala Thr Asp Ser Glu Val Tyr		
545	550	555
Lys Val Val Gly Asn Leu Leu Tyr Tyr Arg Phe Leu Asn Pro Ala Val		
565	570	575
Val Ala Pro Asp Ala Phe Asp Ile Val Ala Met Ala Ala Gly Gly Ala		
580	585	590
Leu Ala Ala Pro Gln Arg His Ala Leu Gly Ala Val Ala Gln Leu Leu		
595	600	605
Gln His Ala Ala Ala Gly Lys Ala Phe Ser Gly Gln Ser Gln His Leu		
610	615	620
Arg Val Leu Asn Asp Tyr Leu Glu Glu Thr His Leu Lys Phe Arg Lys		
625	630	635
		640

出証特 2 0 0 4 - 3 0 5 9 6 6 0

865	870	875	880
Ala Thr Leu Gln Gly Leu Ser Thr Lys Thr Thr Phe Tyr Glu Glu Gln			
	885	890	895
Gly Asp Tyr Tyr Ser Gln Tyr Ile Arg Ala Cys Leu Asp His Leu Ala			
900	905	910	
Pro Asp Ser Lys Ser Ser Gly Lys Gly Lys Lys Gln Pro Ser Leu His			
915	920	925	
Tyr Thr Ala Ala Gln Leu Leu Glu Lys Gly Val Leu Val Glu Ile Glu			
930	935	940	
Asp Leu Pro Ala Ser His Phe Arg Asn Val Ile Phe Asp Ile Thr Pro			
945	950	955	960
Gly Asp Glu Ala Gly Lys Phe Glu Val Asn Ala Lys Phe Leu Gly Val			
965	970	975	
Asp Met Glu Arg Phe Gln Leu His Tyr Gln Asp Leu Leu Gln Leu Gln			
980	985	990	
Tyr Glu Gly Val Ala Val Met Lys Leu Phe Asn Lys Ala Lys Val Asn			
995	1000	1005	
Val Asn Leu Leu Ile Phe Leu Leu Asn Lys Lys Phe Leu Arg Lys			
1010	1015	1020	

&lt;210&gt; 3221

&lt;211&gt; 791

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3221

Met Asp Gly Glu Ser Glu Val Asp Phe Ser Ser Asn Ser Ile Thr Pro

1

5

10

15

Leu Trp Arg Arg Arg Ser Ile Pro Gln Pro His Gln Leu Leu Gly Arg  
20 25 30  
Ser Lys Pro Arg Pro Gln Ser Tyr Gln Ser Pro Asn Gly Leu Leu Ile  
35 40 45  
Thr Asp Phe Pro Val Glu Asp Gly Gly Thr Leu Ser Ala Ala Gln Ile  
50 55 60  
Pro Ala Gln Val Pro Thr Ala Ser Asp Ser Arg Thr Val His Arg Ser  
65 70 75 80  
Pro Leu Leu Leu Gly Ala Gln Arg Arg Ala Val Ala Asn Gly Gly Thr  
85 90 95  
Ala Ser Pro Glu Tyr Arg Ala Ala Ser Pro Arg Leu Arg Arg Pro Lys  
100 105 110  
Ser Pro Lys Leu Pro Lys Ala Val Pro Gly Gly Ser Pro Lys Ser Pro  
115 120 125  
Ala Asn Gly Ala Val Thr Leu Pro Ala Pro Pro Pro Pro Val Leu  
130 135 140  
Arg Pro Pro Arg Thr Pro Asn Ala Pro Ala Pro Cys Thr Pro Glu Glu  
145 150 155 160  
Asp Leu Thr Gly Leu Thr Ala Ser Pro Val Pro Ser Pro Thr Ala Asn  
165 170 175  
Gly Leu Ala Ala Asn Asn Asp Ser Pro Gly Ser Gly Ser Gln Ser Gly  
180 185 190  
Arg Lys Ala Lys Asp Pro Glu Arg Gly Leu Phe Pro Gly Pro Gln Lys  
195 200 205  
Ser Ser Ser Glu Gln Lys Leu Pro Leu Gln Arg Leu Pro Ser Gln Glu  
210 215 220  
Asn Glu Leu Leu Glu Asn Pro Ser Val Val Leu Ser Thr Asn Ser Pro  
225 230 235 240  
Ala Ala Leu Lys Val Gly Lys Gln Gln Ile Ile Pro Lys Ser Leu Ala

245	250	255
Ser Glu Ile Lys Ile Ser Lys Ser Asn Asn Gln Asn Val Glu Pro His		
260	265	270
Lys Arg Leu Leu Lys Val Arg Ser Met Val Glu Gly Leu Gly Gly Pro		
275	280	285
Leu Gly His Ala Gly Glu Glu Ser Glu Val Asp Asn Asp Val Asp Ser		
290	295	300
Pro Gly Ser Leu Arg Arg Gly Leu Arg Ser Thr Ser Tyr Arg Arg Ala		
305	310	315
Val Val Ser Gly Phe Asp Phe Asp Ser Pro Thr Ser Ser Lys Lys Lys		
325	330	335
Asn Arg Met Ser Gln Pro Val Leu Lys Val Val Met Glu Asp Lys Glu		
340	345	350
Lys Phe Ser Ser Leu Gly Arg Ile Lys Lys Lys Met Leu Lys Gly Gln		
355	360	365
Gly Thr Phe Asp Gly Glu Glu Asn Ala Val Leu Tyr Gln Asn Tyr Lys		
370	375	380
Glu Lys Ala Leu Asp Ile Asp Ser Asp Glu Glu Ser Glu Pro Lys Glu		
385	390	395
Gln Lys Ser Asp Glu Lys Ile Val Ile His His Lys Pro Leu Arg Ser		
405	410	415
Thr Trp Ser Gln Leu Ser Ala Val Lys Arg Lys Gly Leu Ser Gln Thr		
420	425	430
Val Ser Gln Glu Glu Arg Lys Arg Gln Glu Ala Ile Phe Glu Val Ile		
435	440	445
Ser Ser Glu His Ser Tyr Leu Leu Ser Leu Glu Ile Leu Ile Arg Met		
450	455	460
Phe Lys Asn Ser Lys Glu Leu Ser Asp Thr Met Thr Lys Thr Glu Arg		
465	470	475
		480

His His Leu Phe Ser Asn Ile Thr Asp Val Cys Glu Ala Ser Lys Lys  
 485 490 495  
 Phe Phe Ile Glu Leu Glu Ala Arg His Gln Asn Asn Ile Phe Ile Asp  
 500 505 510  
 Asp Ile Ser Asp Ile Val Glu Lys His Thr Ala Ser Thr Phe Asp Pro  
 515 520 525  
 Tyr Val Lys Tyr Cys Thr Asn Glu Val Tyr Gln Gln Arg Thr Leu Gln  
 530 535 540  
 Lys Leu Leu Ala Thr Asn Pro Ser Phe Lys Glu Val Leu Ser Arg Ile  
 545 550 555 560  
 Glu Ser His Glu Asp Cys Arg Asn Leu Pro Met Ile Ser Phe Leu Ile  
 565 570 575  
 Leu Pro Met Gln Arg Val Thr Arg Leu Pro Leu Leu Met Asp Thr Ile  
 580 585 590  
 Cys Gln Lys Thr Pro Lys Asp Ser Pro Lys Tyr Glu Val Cys Lys Arg  
 595 600 605  
 Ala Leu Lys Glu Val Ser Lys Leu Val Arg Leu Cys Asn Glu Gly Ala  
 610 615 620  
 Arg Lys Met Glu Arg Thr Glu Met Met Tyr Thr Ile Asn Ser Gln Leu  
 625 630 635 640  
 Glu Phe Lys Ile Lys Pro Phe Pro Leu Val Ser Ser Ser Arg Trp Leu  
 645 650 655  
 Val Lys Arg Gly Glu Leu Thr Ala Tyr Val Glu Asp Thr Val Leu Phe  
 660 665 670  
 Ser Arg Arg Thr Ser Lys Gln Gln Val Tyr Phe Phe Leu Phe Asn Asp  
 675 680 685  
 Val Leu Ile Ile Thr Lys Lys Lys Ser Glu Glu Ser Tyr Asn Val Asn  
 690 695 700  
 Asp Tyr Ser Leu Arg Asp Gln Leu Leu Val Glu Ser Cys Asp Asn Glu

705                      710                      715                      720  
 Glu Leu Asn Ser Ser Pro Gly Lys Asn Ser Ser Thr Met Leu Tyr Ser  
                             725                      730                      735  
 Arg Gln Ser Ser Ala Ser His Leu Phe Thr Leu Thr Val Leu Ser Asn  
                             740                      745                      750  
 His Ala Asn Glu Lys Val Glu Met Leu Leu Gly Ala Glu Thr Gln Ser  
                             755                      760                      765  
 Glu Arg Ala Arg Trp Ile Thr Ala Leu Gly His Ser Ser Gly Lys Pro  
                             770                      775                      780  
 Pro Ala Asp Arg Thr Cys Gly  
 785                      790

<210> 3222

<211> 214

<212> PRT

<213> Homo sapiens

<400> 3222

Met Arg Val Ser Met Gln Gln Thr Ala Gln Gly Gly Gly Pro His Gly  
     1                      5                      10                      15  
 Gln Arg Arg Asp Ala Asp Leu Arg Pro Ala Pro Pro Lys Leu Pro Val  
                             20                      25                      30  
 Gln Met Pro Leu Thr Pro Ser Asn Gln Gln Gln Asp Arg His Cys Val  
                             35                      40                      45  
 Arg Lys Val Gly Arg His Pro His Pro Cys Thr Ala Ala Ala Thr Pro  
                             50                      55                      60  
 Leu Ala Pro Asn Ala Lys Ala Phe Lys Asp Ala Ala Gln Lys His His  
                             65                      70                      75                      80

Gln Gln His Lys Gly Arg Ser Gln Glu Pro Glu Leu Thr Ser Leu Pro  
                             85                            90                            95  
 Pro Ser Ser Glu Val Ser Phe Pro Thr Phe Ser Glu Leu Ser Val Ser  
                             100                            105                            110  
 Met Ala Ser Ser Ala Thr Ser Ala Thr Ser Pro Asp Val Leu Ala Ser  
                             115                            120                            125  
 Val Ser Ile Ala Ser Ser Trp Pro Ser Ser Ala Arg Cys Ser Lys Pro  
                             130                            135                            140  
 Thr Ala Val Glu Ala Asn Val Ile Ala Leu Pro Leu Arg Arg Trp His  
 145                            150                            155                            160  
 Arg Asp Trp Gln Arg Cys His Leu Gly Val Cys Val Leu Ser Leu Arg  
                             165                            170                            175  
 Val Gln Ala Ser Pro Ala Pro Ala Val Val Leu Gly Pro Gln Met Arg  
                             180                            185                            190  
 Asp His Gly His Glu Asp Gln Pro Pro Arg Gln Pro Leu Pro Ser Ser  
                             195                            200                            205  
 Leu Gly Ser Gly Val Phe  
                             210

&lt;210&gt; 3223

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3223

Met Ile Phe Lys Phe Pro Ser Ser Phe Leu Val Leu Trp Ser Leu Leu  
           1                            5                            10                            15  
 Arg Cys Gly Arg Lys Gln Phe Val Ser Cys Ala Glu Gln Phe Arg Ser

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Asp Asp His Gln Ile Val Lys Trp Asn Leu Leu Thr Ser Glu Thr Thr  
 35 40 45  
 Gln Ile Val Lys Leu Pro Asp Asp Ile Tyr Pro Ile Asp Phe His Trp  
 50 55 60  
 Phe Pro Lys Ser Leu Gly Val Lys Lys Gln Thr Gln Ala Glu Ser Phe  
 65 70 75 80  
 Val Leu Thr Ser Ser Asp Gly Lys Phe His Leu Ile Ser Lys Leu Gly  
 85 90 95  
 Arg Val Glu Lys Ser Val Glu Ala His Cys Gly Ala Val Leu Ala Gly  
 100 105 110  
 Arg Trp Asn Tyr Glu Gly Thr Ala Leu Val Thr Val Gly Glu Asp Gly  
 115 120 125  
 Gln Ile Lys Ile Trp Ser Lys Thr Gly Met Leu Arg Ser Thr Leu Ala  
 130 135 140  
 Gln Gln Gly Thr Pro Val Tyr Ser Val Ala Trp Gly Pro Asp Ser Glu  
 145 150 155 160  
 Lys Val Leu Tyr Thr Ala Gly Lys Gln Leu Ile Ile Lys Pro Leu Gln  
 165 170 175  
 Pro Asn Ala Lys Val Leu Gln Trp Lys Ala His Asp Gly Ile Ile Leu  
 180 185 190  
 Lys Val Asp Trp Asn Ser Val Asn Asp Leu Ile Leu Ser Ala Gly Glu  
 195 200 205  
 Asp Cys Lys Tyr Lys Val Trp Asp Ser Tyr Gly Arg Pro Leu Tyr Asn  
 210 215 220  
 Ser Gln Pro His Glu His Pro Ile Thr Ser Val Ala Trp Ala Pro Asp  
 225 230 235 240  
 Gly Glu Leu Phe Ala Val Gly Ser Phe His Thr Leu Arg Leu Cys Asp  
 245 250 255  
 Lys Thr Gly Trp Ser Tyr Ala Leu Glu Lys Pro Asn Thr Gly Ser Ile

260	265	270
Phe Asn Ile Ala Trp Ser Ile Asp Gly Thr Gln Ile Ala Gly Ala Cys		
275	280	285
Gly Asn Gly His Val Val Phe Ala His Val Val Glu Gln His Trp Glu		
290	295	300
Trp Lys Asn Phe Gln Val Thr Leu Thr Lys Arg Arg Ala Met Gln Val		
305	310	315
Arg Asn Val Leu Asn Asp Ala Val Asp Leu Leu Glu Phe Arg Asp Arg		
325	330	335
Val Ile Lys Ala Ser Leu Asn Tyr Ala His Leu Val Val Ser Thr Ser		
340	345	350
Leu Gln Cys Tyr Val Phe Ser Thr Lys Asn Trp Asn Thr Pro Ile Ile		
355	360	365
Phe Asp Leu Lys Glu Gly Thr Val Ser Leu Ile Leu Gln Ala Glu Arg		
370	375	380
His Phe Leu Leu Val Asp Gly Ser Ser Ile Tyr Leu Tyr Ser Tyr Glu		
385	390	395
Gly Arg Phe Ile Ser Ser Pro Lys Phe Pro Gly Met Arg Thr Asp Ile		
405	410	415
Leu Asn Ala Gln Thr Val Ser Leu Ser Asn Asp Thr Ile Ala Ile Arg		
420	425	430
Asp Lys Ala Asp Glu Lys Ile Ile Phe Leu Phe Glu Ala Ser Thr Gly		
435	440	445
Lys Pro Leu Gly Asp Gly Lys Phe Leu Ser His Lys Asn Glu Ile Leu		
450	455	460
Glu Ile Ala Leu Asp Gln Lys Gly Leu Thr Asn Asp Arg Lys Ile Ala		
465	470	475
Phe Ile Asp Lys Asn Arg Asp Leu Cys Ile Thr Ser Val Lys Arg Phe		
485	490	495

Gly Lys Glu Glu Gln Ile Ile Lys Leu Gly Thr Met Val His Thr Leu  
500 505 510  
Ala Trp Asn Asp Thr Cys Asn Ile Leu Cys Gly Leu Gln Asp Thr Arg  
515 520 525  
Phe Ile Val Trp Tyr Tyr Pro Asn Thr Val Tyr Val Asp Arg Asp Ile  
530 535 540  
Leu Pro Lys Thr Leu Tyr Glu Arg Asp Ala Ser Glu Phe Ser Lys Asn  
545 550 555 560  
Pro His Ile Val Ser Phe Val Gly Asn Gln Val Thr Ile Arg Arg Ala  
565 570 575  
Asp Gly Ser Leu Val His Ile Ser Ile Pro Pro Tyr Pro Ala Ile Leu  
580 585 590  
His Glu Tyr Val Ser Ser Ser Lys Trp Glu Asp Ala Val Arg Leu Cys  
595 600 605  
Arg Phe Val Lys Glu Gln Thr Met Trp Ala Cys Leu Ala Ala Met Ala  
610 615 620  
Val Ala Asn Arg Asp Met Thr Thr Ala Glu Ile Ala Tyr Ala Ala Ile  
625 630 635 640  
Gly Glu Ile Asp Lys Val Gln Tyr Ile Asn Ser Ile Lys Asn Leu Pro  
645 650 655  
Ser Lys Glu Ser Lys Met Ala His Ile Leu Leu Phe Ser Gly Asn Ile  
660 665 670  
Gln Glu Ala Glu Ile Val Leu Leu Gln Ala Gly Leu Val Tyr Gln Ala  
675 680 685  
Ile Gln Ile Asn Ile Asn Leu Tyr Asn Trp Glu Arg Ala Leu Glu Leu  
690 695 700  
Ala Val Lys Tyr Lys Thr His Val Asp Thr Val Leu Ala Tyr Arg Gln  
705 710 715 720  
Lys Phe Leu Glu Thr Phe Gly Lys Gln Glu Thr Asn Lys Arg Tyr Leu

	725		730		735
His	Tyr	Ala	Glu	Gly	Leu
Gln	Ile	Asp	Trp	Glu	Lys
Ile	Lys	Ala			
	740		745		750

&lt;210&gt; 3225

&lt;211&gt; 145

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3225

Met	Gly	Leu	Lys	Ser	His	Val	Leu	Pro	Ala	Pro	Asn	Ser	Gln	Gly	Gln
1					5					10				15	
Gly	Ser	Leu	Cys	Ile	Phe	Val	Tyr	Val	Thr	Ser	Tyr	Met	Asp	Tyr	Ile
					20					25				30	
Gln	Leu	Gln	Gly	Lys	Glu	Asn	Leu	Asp	Cys	Ser	Gly	Leu	Asn	Lys	Gln
					35					40				45	
Lys	Ile	Val	Phe	Pro	His	Ser	Met	Asp	Ser	Gly	Asp	Gly	Trp	Leu	Met
					50					55				60	
Val	Leu	Val	Gln	Gln	Leu	His	Gly	Gly	Arg	Gly	His	Val	Leu	Asp	Pro
					65					70				75	80
Phe	Ala	Leu	Ile	Ser	Val	Leu	Val	Thr	Ser	Trp	Ser	Gln	Asp	Gly	Cys
					85					90				95	
Cys	Ile	Pro	Lys	Asn	His	Val	Cys	Val	Gln	Gly	Arg	Arg	Gly	Gly	Gly
					100					105				110	
Arg	Gly	Arg	Ala	Lys	Leu	Ala	Gly	Pro	Val	Thr	Phe	Tyr	Gln	Lys	Val
					115					120				125	
Lys	Pro	Arg	Gln	Lys	Ser	Val	Ser	Cys	Ser	Leu	Pro	Leu	His	Ile	Phe
					130					135				140	

Thr

145

&lt;210&gt; 3226

&lt;211&gt; 163

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3226

Met Ala Phe Gly Glu Pro Pro Ser Gly His Ser Thr Arg His Arg Thr

1

5

10

15

Leu His Gly Leu Ser Phe His Thr Ala Met Gly Met Ala Trp Ser Leu

20

25

30

His Tyr Gln Gly Gln Gly Gly Thr Leu Cys Leu Val Gly Val Ser Thr

35

40

45

Pro Ser His Asp Lys Ala Val Leu Gln Gly Leu Pro His Phe Ser Val

50

55

60

Asn Leu Gly Val Gln Pro Ser Ala Leu Ala Gly Arg Arg Gly Asp Ala

65

70

75

80

Ser Cys Pro Ser Ser Trp Arg Ser Ala Asp Pro Thr Val Ser Pro Asn

85

90

95

Leu Gly Ala Pro Gly Gly Pro Asn Ala Ile Asp Ala Leu His Gly Glu

100

105

110

Gln Leu Gly Leu Phe Leu Arg Thr Lys Met Gly Arg Asp Pro Lys Asp

115

120

125

Val His Gly Leu Thr Pro Ala Leu Cys Gly Pro Cys Leu Ala Gly Leu

130

135

140

Pro Ser Ser His Ser Pro Gln Phe Ser Cys Asn Thr Ala Pro Leu Lys

145                      150                      155                      160  
Met Leu Ser

<210> 3227

<211> 390

<212> PRT

<213> Homo sapiens

<400> 3227

Met Leu Ser Phe Ser Arg Asp Arg Leu Pro Ser Gly Arg Arg Val Ser  
1                      5                      10                      15  
Gly Lys Cys Pro Pro Pro Pro Leu Gly Met Ala Val Gly Arg Gly Gly  
20                      25                      30  
Ser Gly Cys Pro Glu Glu Gly Ser Gly Arg Lys Leu Glu Leu Leu Glu  
35                      40                      45  
Ser Gln Leu Pro Ala Glu Arg Ala Arg Glu Glu Ala Gly Pro Ser Val  
50                      55                      60  
Arg Arg Pro Arg Asp Lys Leu His Lys Pro Lys Ala Thr Gln Thr Glu  
65                      70                      75                      80  
Val Lys Pro Ser Val Arg Phe Asn Leu Arg Thr Ser Lys Asp Pro Glu  
85                      90                      95  
His Glu Gly Cys Tyr Leu Ser Val Gly His Ser Gln Pro Leu Glu Asp  
100                      105                      110  
Cys Ser Phe Asn Met Thr Ala Lys Thr Phe Phe Ile Ile His Gly Trp  
115                      120                      125  
Thr Met Ser Gly Ile Phe Glu Asn Trp Leu His Lys Leu Val Ser Ala  
130                      135                      140

Leu His Thr Arg Glu Lys Asp Ala Asn Val Val Val Val Asp Trp Leu  
 145 150 155 160  
 Pro Leu Ala His Gln Leu Tyr Thr Asp Ala Val Asn Asn Thr Arg Val  
 165 170 175  
 Val Gly His Ser Ile Ala Arg Met Leu Asp Trp Leu Gln Glu Lys Asp  
 180 185 190  
 Asp Phe Ser Leu Gly Asn Val His Leu Ile Gly Tyr Ser Leu Gly Ala  
 195 200 205  
 His Val Ala Gly Tyr Ala Gly Asn Phe Val Lys Gly Thr Val Gly Arg  
 210 215 220  
 Ile Thr Gly Leu Asp Pro Ala Gly Pro Met Phe Glu Gly Ala Asp Ile  
 225 230 235 240  
 His Lys Arg Leu Ser Pro Asp Asp Ala Asp Phe Val Asp Val Leu His  
 245 250 255  
 Thr Tyr Thr Arg Ser Phe Gly Leu Ser Ile Gly Ile Gln Met Pro Val  
 260 265 270  
 Gly His Ile Asp Ile Tyr Pro Asn Gly Gly Asp Phe Gln Pro Gly Cys  
 275 280 285  
 Gly Leu Asn Asp Val Leu Gly Ser Ile Ala Tyr Gly Thr Ile Thr Glu  
 290 295 300  
 Val Val Lys Cys Glu His Glu Arg Ala Val His Leu Phe Val Asp Ser  
 305 310 315 320  
 Leu Val Asn Gln Asp Lys Pro Ser Phe Ala Phe Gln Cys Thr Asp Ser  
 325 330 335  
 Asn Arg Phe Lys Lys Gly Ile Cys Leu Ser Cys Arg Lys Asn Arg Cys  
 340 345 350  
 Asn Ser Ile Gly Tyr Asn Ala Lys Lys Met Arg Asn Lys Arg Asn Ser  
 355 360 365  
 Lys Met Tyr Leu Lys Thr Arg Ala Gly Met Pro Phe Arg Gly Asn Leu

370 375 380  
Gln Ser Leu Glu Cys Pro  
385 390

<210> 3228

<211> 107

<212> PRT

<213> Homo sapiens

<400> 3228

Met Val Ser Cys Leu Val Glu Gly Leu Lys Lys Ala Ala Tyr Lys Val  
1 5 10 15  
Val Asn Tyr Asp Lys Pro Lys Glu Ala Thr Gln Gly Lys Asp Glu Asn  
20 25 30  
Pro Ala Gln Phe Met Ala Arg Leu Val Ala Thr Leu Arg Arg Phe Thr  
35 40 45  
Ala Leu Asp Pro Glu Gly Pro Glu Gly Cys Leu Ile Leu Asn Met His  
50 55 60  
Phe Ile Ile Gln Ser Ala Pro Asp Ile Arg Lys Lys Phe Gln Lys Leu  
65 70 75 80  
Asp Ser Ser Pro Gln Thr Pro Gln Gln Asp Leu Ile Asn Leu Ala Phe  
85 90 95  
Lys Val Phe Asn Asn Arg Glu Glu Thr Ala Lys  
100 105

<210> 3229

<211> 277

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3229

Met	Ser	Arg	Glu	Phe	Arg	Gly	His	Arg	Asn	Cys	Val	Leu	Thr	Leu	Ala
1				5				10						15	
Tyr	Ser	Ala	Pro	Trp	Asp	Leu	Pro	Ser	Thr	Pro	Cys	Ala	Glu	Glu	Ala
			20					25					30		
Ala	Ala	Gly	Gly	Leu	Leu	Val	Thr	Gly	Ser	Thr	Asp	Gly	Thr	Ala	Lys
			35					40					45		
Val	Trp	Gln	Val	Ala	Ser	Gly	Cys	Cys	His	Gln	Thr	Leu	Arg	Gly	His
			50					55				60			
Thr	Gly	Ala	Val	Leu	Cys	Leu	Val	Leu	Asp	Thr	Pro	Gly	His	Thr	Ala
			65					70				75			80
Phe	Thr	Gly	Ser	Thr	Asp	Ala	Thr	Ile	Arg	Ala	Trp	Asp	Ile	Leu	Ser
					85				90					95	
Gly	Glu	Gln	Leu	Arg	Val	Phe	Arg	Glu	His	Arg	Gly	Ser	Val	Ile	Cys
			100						105					110	
Leu	Glu	Cys	Ser	Arg	Ala	Ala	Gly	Thr	Leu	Ala	Pro	Gly	Pro	Ser	Thr
			115						120					125	
Arg	Ser	Leu	Glu	Ser	Cys	Gly	Gly	Cys	Ser	Gly	Ala	Thr	His	Ser	Ser
			130						135					140	
Ser	Thr	Ala	Ser	Arg	Cys	Thr	Ala	Arg	Cys	Ser	Thr	Pro	Pro	Arg	Thr
			145						150					155	160
Thr	Ala	Pro	Cys	Ala	Ser	Gly	Thr	Cys	Ala	Gly	Ser	Glu	Val	Pro	Arg
						165				170				175	
Gly	Pro	Leu	Arg	Pro	Arg	Ala	Ala	Ser	Arg	Gly	Ser	Ser	Ala	Thr	Arg
			180							185				190	
Trp	Ala	Ala	Pro	Pro	Arg	Pro	Cys	Ser	Arg	Pro	Asp	Pro	Ala	Gly	Pro

195                      200                      205  
 Leu Gln Thr Pro Ala Gln Thr Pro Ser Gly Ser Gln Ser Ala Pro Pro  
 210                      215                      220  
 Cys Tyr Pro Arg Trp Trp Arg Pro Met Ala Gly Glu Gly Arg Gly Ala  
 225                      230                      235                      240  
 Arg Lys Pro Gly Arg Glu Glu Ser Pro Ser Gln Ala Ser Gly Phe Ser  
 245                      250                      255  
 Leu Val Ala Arg Arg Arg Trp Glu Arg Glu Cys Ser Pro Trp Gly Pro  
 260                      265                      270  
 Pro Pro Phe Pro Phe  
 275

&lt;210&gt; 3230

&lt;211&gt; 586

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3230

Met Lys Tyr Ile Leu Val Thr Gly Gly Val Ile Ser Gly Ile Gly Lys  
 1                      5                      10                      15  
 Gly Ile Ile Ala Ser Ser Ile Gly Thr Ile Leu Lys Ser Cys Gly Leu  
 20                      25                      30  
 Arg Val Thr Ala Ile Lys Ile Asp Pro Tyr Ile Asn Ile Asp Ala Gly  
 35                      40                      45  
 Thr Phe Ser Pro Tyr Glu His Gly Glu Val Phe Val Leu Asn Asp Gly  
 50                      55                      60  
 Gly Glu Val Asp Leu Asp Leu Gly Asn Tyr Glu Arg Phe Leu Asp Ile  
 65                      70                      75                      80

Asn	Leu	Tyr	Lys	Asp	Asn	Asn	Ile	Thr	Thr	Gly	Lys	Ile	Tyr	Gln	His
				85					90					95	
Val	Ile	Asn	Lys	Glu	Arg	Arg	Gly	Asp	Tyr	Leu	Gly	Lys	Thr	Val	Gln
			100					105					110		
Val	Val	Pro	His	Ile	Thr	Asp	Ala	Val	Gln	Glu	Trp	Val	Met	Asn	Gln
			115				120						125		
Ala	Lys	Val	Pro	Val	Asp	Gly	Asn	Lys	Glu	Glu	Pro	Gln	Ile	Cys	Val
			130				135						140		
Ile	Glu	Leu	Gly	Gly	Thr	Ile	Gly	Asp	Ile	Glu	Gly	Met	Pro	Phe	Val
145					150					155				160	
Glu	Ala	Phe	Arg	Gln	Phe	Gln	Phe	Lys	Ala	Lys	Arg	Glu	Asn	Phe	Cys
			165					170					175		
Asn	Ile	His	Val	Ser	Leu	Val	Pro	Gln	Leu	Ser	Ala	Thr	Gly	Glu	Gln
			180					185					190		
Lys	Thr	Lys	Pro	Thr	Gln	Asn	Ser	Val	Arg	Ala	Leu	Arg	Gly	Leu	Gly
			195					200					205		
Leu	Ser	Pro	Asp	Leu	Ile	Val	Cys	Arg	Ser	Ser	Thr	Pro	Ile	Glu	Met
			210				215						220		
Ala	Val	Lys	Glu	Lys	Ile	Ser	Met	Phe	Cys	His	Val	Asn	Pro	Glu	Gln
225					230					235				240	
Val	Ile	Cys	Ile	His	Asp	Val	Ser	Ser	Thr	Tyr	Arg	Val	Pro	Val	Leu
			245						250					255	
Leu	Glu	Glu	Gln	Ser	Ile	Val	Lys	Tyr	Phe	Lys	Glu	Arg	Leu	His	Leu
			260						265				270		
Pro	Ile	Gly	Asp	Ser	Ala	Ser	Asn	Leu	Leu	Phe	Lys	Trp	Arg	Asn	Met
			275					280					285		
Ala	Asp	Arg	Tyr	Glu	Arg	Leu	Gln	Lys	Ile	Cys	Ser	Ile	Ala	Leu	Val
			290					295					300		
Gly	Lys	Tyr	Thr	Lys	Leu	Arg	Asp	Cys	Tyr	Ala	Ser	Val	Phe	Lys	Ala

305	310	315	320
Leu Glu His Ser Ala Leu Ala Ile Asn His Lys Leu Asn Leu Met Tyr			
	325	330	335
Ile Asp Ser Ile Asp Leu Glu Lys Ile Thr Glu Thr Glu Asp Pro Val			
	340	345	350
Lys Phe His Glu Ala Trp Gln Lys Leu Cys Lys Ala Asp Gly Ile Leu			
	355	360	365
Val Pro Gly Gly Phe Gly Ile Arg Gly Thr Leu Gly Lys Leu Gln Ala			
	370	375	380
Ile Ser Trp Ala Arg Thr Lys Lys Ile Pro Phe Leu Gly Val Cys Leu			
385	390	395	400
Gly Met Gln Leu Ala Val Ile Glu Phe Ala Arg Asn Cys Leu Asn Leu			
	405	410	415
Lys Asp Ala Asp Ser Thr Glu Phe Arg Pro Asn Ala Pro Val Pro Leu			
	420	425	430
Val Ile Asp Met Pro Glu His Asn Pro Gly Asn Leu Gly Gly Thr Met			
	435	440	445
Arg Leu Gly Ile Arg Arg Thr Val Phe Lys Thr Glu Asn Ser Ile Leu			
	450	455	460
Arg Lys Leu Tyr Gly Asp Val Pro Phe Ile Glu Glu Arg His Arg His			
465	470	475	480
Arg Phe Glu Val Asn Pro Asn Leu Ile Lys Gln Phe Glu Gln Asn Asp			
	485	490	495
Leu Ser Phe Val Gly Gln Asp Val Asp Gly Asp Arg Met Glu Ile Ile			
	500	505	510
Glu Leu Ala Asn His Pro Tyr Phe Val Gly Val Gln Phe His Pro Glu			
	515	520	525
Phe Ser Ser Arg Pro Met Lys Pro Ser Pro Pro Tyr Leu Gly Leu Leu			
	530	535	540

<210> 3231

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3231

出証特 2 0 0 4 - 3 0 5 9 6 6 0

115	120	125
Thr Glu Lys Gly Ala Thr Pro Trp Val Asn Lys Gln		
130	135	140

&lt;210&gt; 3232

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3232

Met Phe Phe Ile Phe Gln Lys Glu Lys Ala Leu Lys Ile Phe Leu Lys		
1	5	10
Cys Asp Cys His Leu Phe Ser Thr Lys Asn Phe Leu Arg Phe Phe Lys		
20	25	30
Arg Lys Ile Glu Ile Leu Ser Leu Pro Arg Phe Pro Ser Pro Pro Val		
35	40	45
Phe Lys Met Lys Ala Gln Val Gln Glu Trp Gly Ala Gln Val Pro Gly		
50	55	60
Val Tyr Thr Pro Pro Thr Gln Leu Arg Pro Ala Leu Ala Glu Gly Asp		
65	70	75
Ala Val Leu Ser Ser Gln Pro Arg Glu Ala Ser Phe Ser Thr Ser Asn		
85	90	95
Pro Thr Ala Met Asn Val Asn Ser Leu Gly Cys Phe Gln Lys Gln Glu		
100	105	110
Ser Ala		

&lt;210&gt; 3233

&lt;211&gt; 454

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3233

Met Glu Ile His His Phe Leu Leu Lys Lys Arg Lys Gln Ala Asn Leu

1 5 10 15

Ala Gln Leu Leu Arg Asp Ser Gln Asp Arg Asn Lys His Leu Gly Glu

20 25 30

Glu Ile Lys Glu Leu Gln Gln Arg Leu Gly Glu Val Gln Gly Asp Asn

35 40 45

Lys Leu Leu Arg Met Thr Ile Ala Lys Gln Arg Leu Gly Asp Glu Ala

50 55 60

Ile Gly Val Arg His Phe Ala Ala His Glu Arg Glu Asp Leu Val Gln

65 70 75 80

Gln Leu Glu Arg Ala Lys Glu Gln Ile Glu Ser Leu Glu His Asp Leu

85 90 95

Gln Ala Ser Val Asp Glu Leu Gln Asp Val Lys Glu Glu Arg Ser Ser

100 105 110

Tyr Gln Asp Lys Val Glu Arg Leu Asn Gln Glu Leu Asn His Ile Leu

115 120 125

Ser Gly His Glu Asn Arg Ile Ile Asp Val Asp Ala Leu Cys Met Glu

130 135 140

Asn Arg Tyr Leu Gln Glu Arg Leu Lys Gln Leu His Glu Glu Val Asn

145 150 155 160

Leu Leu Lys Ser Asn Ile Ala Lys Tyr Lys Asn Ala Leu Glu Arg Arg

165 170 175

Lys Asn Ser Lys Gly Gln Gly Lys Ser Ser Ser Ser Ala Leu Thr Gly

180	185	190
Val Leu Ser Ala Lys Gln Val Gln Asp Leu Leu Ser Glu Asp His Gly		
195	200	205
Cys Ser Leu Pro Ala Thr Pro Gln Ser Ile Ser Asp Leu Lys Ser Leu		
210	215	220
Ala Thr Ala Leu Leu Glu Thr Ile His Glu Lys Asn Met Val Ile Gln		
225	230	235
His Gln Arg Gln Thr Asn Lys Ile Leu Gly Asn Arg Val Ala Glu Leu		
245	250	255
Glu Lys Lys Leu Arg Thr Leu Glu Val Ser Gly Leu Trp Ser Leu Pro		
260	265	270
Gly Gly Lys Asp Thr Ile Leu Phe Ser Asp Pro Thr Leu Pro Ser Gly		
275	280	285
Gln Arg Ser Arg Ser Pro Leu Leu Lys Phe Val Glu Gln Pro Thr Glu		
290	295	300
Asn Lys Ala Asp Pro Lys Asp Gly Glu Ala Gln Lys Gln Glu Glu Asp		
305	310	315
Glu Ser Cys Ala Ala Ala Glu Ala Leu Thr Ala Pro Glu Asp Ala Gly		
325	330	335
Arg Pro Ala Val Asn Ser Pro Ala Asn Gln Ser Arg Gly Asn Gln Cys		
340	345	350
Lys Leu Phe His Pro Ser Leu Pro Gln Leu Pro Ser Glu Glu Glu Val		
355	360	365
Asn Ser Leu Gly Arg Glu Ile Ile Lys Leu Thr Lys Glu Gln Ala Ala		
370	375	380
Ala Glu Leu Glu Glu Val Arg Arg Glu Ser Pro Ile Glu Gly Gln Arg		
385	390	395
Ser Glu Thr Gly Pro Ala Pro Pro Gly Leu Ala Ile Gln Gly Glu Leu		
405	410	415

Pro Lys Ser His Leu Asp Ser Phe Glu Ala Ser Arg Pro Ala Ala Lys

420

425

430

Ala Ser Thr Pro Glu Asp Gly Lys Gly Ile Pro Glu Gly Gly Gly Met

435

440

445

Arg Ser Thr Val Lys Thr

450

<210> 3234

<211> 278

<212> PRT

<213> Homo sapiens

<400> 3234

Met Thr Asp Leu Asn Lys His Ile Lys Gln Ala Gln Thr Gln Arg Lys

1

5

10

15

Gln Leu Leu Glu Glu Ser Arg Glu Leu His Arg Glu Lys Leu Leu Val

20

25

30

Gln Ala Glu Asn Arg Phe Phe Leu Glu Tyr Leu Thr Asn Lys Thr Glu

35

40

45

Glu Tyr Thr Glu Gln Pro Glu Lys Val Trp Asn Ser Tyr Leu Gln Lys

50

55

60

Ser Gly Glu Ile Glu Arg Arg Arg Gln Glu Ser Ala Ser Arg Tyr Ala

65

70

75

80

Glu Gln Ile Ser Val Leu Lys Thr Ala Leu Leu Gln Lys Glu Asn Ile

85

90

95

Gln Ser Ser Leu Lys Arg Lys Leu Gln Ala Met Arg Asp Ile Ala Ile

100

105

110

Leu Lys Glu Lys Gln Glu Lys Glu Ile Gln Thr Leu Gln Glu Glu Thr

115 120 125  
Lys Lys Val Gln Ala Glu Thr Ala Ser Lys Thr Arg Glu Val Gln Ala  
130 135 140  
Gln Leu Leu Gln Glu Lys Arg Leu Leu Glu Lys Gln Leu Ser Glu Pro  
145 150 155 160  
Asp Arg Arg Leu Leu Gly Lys Arg Lys Arg Arg Glu Leu Asn Met Lys  
165 170 175  
Ala Gln Ala Leu Lys Leu Ala Ala Lys Arg Phe Ile Phe Glu Tyr Ser  
180 185 190  
Cys Gly Ile Asn Arg Glu Asn Gln Gln Phe Lys Lys Glu Leu Leu Gln  
195 200 205  
Leu Ile Glu Gln Ala Gln Lys Leu Thr Ala Thr Gln Ser His Leu Glu  
210 215 220  
Asn Arg Lys Gln Gln Leu Gln Gln Glu Gln Trp Tyr Leu Glu Ser Leu  
225 230 235 240  
Ile Gln Ala Arg Gln Arg Leu Gln Gly Ser His Asn Gln Cys Leu Asn  
245 250 255  
Arg Gln Asp Val Pro Lys Thr Thr Pro Ser Leu Pro Gln Gly Thr Lys  
260 265 270  
Ser Arg Ile Asn Pro Lys  
275

&lt;210&gt; 3235

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3235

Met	Arg	His	Arg	Ala	Gln	Gln	Thr	Gln	Lys	Phe	Lys	Ala	Ala	Tyr	Ala
1				5					10					15	
Tyr	Asn	Leu	Met	Gly	Ser	Leu	Ser	His	Glu	Phe	Arg	Tyr	Ser	Phe	Val
				20				25						30	
Arg	Val	Leu	Trp	Phe	Arg	Ile	Ser	His	Lys	Ala	Val	Ile	Lys	Leu	Leu
				35				40						45	
Ala	Arg	Thr	Gly	Val	Ser	Ser	Glu	Val	Gln	Met	Glu	Glu	Asp	Ser	Leu
				50				55						60	
Leu	Gln	Arg	Thr	Asp	Gly	Gly	Thr	Gln	Phe	Leu	Glu	Val	Gly	Gln	Thr
				65				70						75	
Ala	Ala	Ala	Leu	Cys	Ser	Leu	Pro	Cys	Gly	Pro	Leu	Arg	Tyr	Asp	His
				85				90						95	
Leu	Leu	Cys	Glu	Ser	Val	Gln	Ser	Ser	Arg	Ala	Thr	Glu	Arg	Ala	Cys
				100				105						110	

&lt;210&gt; 3236

&lt;211&gt; 655

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3236

Met	Pro	Leu	Lys	Trp	Lys	Thr	Ser	Ser	Pro	Ala	Ile	Trp	Arg	Phe	Pro
1				5					10					15	
Val	Pro	Val	Pro	Lys	Thr	Ser	Arg	Ser	Thr	Pro	Leu	Ser	Pro	Ala	Tyr
				20				25						30	
Ile	Ser	Leu	Val	Glu	Glu	Glu	Asp	Gln	His	Met	Lys	Leu	Ser	Leu	Gly
				35				40						45	
Gly	Ser	Glu	Met	Gly	Leu	Ser	Ser	His	Leu	Gln	Ser	Ser	Lys	Ala	Gly

50	55	60
Pro Thr Arg Ile Phe Thr Ser Asn Thr His Ser Ser Val Val Leu Gln		
65	70	75
Gly Phe Asp Gln Leu Arg Leu Glu Gly Leu Leu Cys Asp Val Thr Leu		
85	90	95
Met Pro Gly Asp Thr Asp Asp Ala Phe Pro Val His Arg Val Met Met		
100	105	110
Ala Ser Ala Ser Asp Tyr Phe Lys Ala Met Phe Thr Gly Gly Met Lys		
115	120	125
Glu Gln Asp Leu Met Cys Ile Lys Leu His Gly Val Ser Lys Val Gly		
130	135	140
Leu Arg Lys Ile Ile Asp Phe Ile Tyr Thr Ala Lys Leu Ser Leu Asn		
145	150	155
Met Asp Asn Leu Gln Asp Thr Leu Glu Ala Ala Ser Phe Leu Gln Ile		
165	170	175
Leu Pro Val Leu Asp Phe Cys Lys Val Phe Leu Ile Ser Gly Val Thr		
180	185	190
Leu Asp Asn Cys Val Glu Val Gly Arg Ile Ala Asn Thr Tyr Asn Leu		
195	200	205
Thr Glu Val Asp Lys Tyr Val Asn Ser Phe Val Leu Lys Asn Phe Pro		
210	215	220
Ala Leu Leu Ser Thr Gly Glu Phe Leu Lys Leu Pro Phe Glu Arg Leu		
225	230	235
Ala Phe Val Leu Ser Ser Asn Ser Leu Lys His Cys Thr Glu Leu Glu		
245	250	255
Leu Phe Lys Ala Thr Cys Arg Trp Leu Arg Leu Glu Glu Pro Arg Met		
260	265	270
Asp Phe Ala Ala Lys Leu Met Lys Asn Ile Arg Phe Pro Leu Met Thr		
275	280	285

Pro Gln Glu Leu Ile Asn Tyr Val Gln Thr Val Asp Phe Met Arg Thr  
 290 295 300  
 Asp Asn Thr Cys Val Asn Leu Leu Leu Glu Ala Ser Asn Tyr Gln Met  
 305 310 315 320  
 Met Pro Tyr Met Gln Pro Val Met Gln Ser Asp Arg Thr Ala Ile Arg  
 325 330 335  
 Ser Asp Thr Thr His Leu Val Thr Leu Gly Gly Val Leu Arg Gln Arg  
 340 345 350  
 Leu Val Val Ser Lys Glu Leu Arg Met Tyr Asp Glu Lys Ala His Glu  
 355 360 365  
 Trp Lys Ser Leu Ala Pro Met Asp Ala Pro Arg Tyr Gln His Gly Ile  
 370 375 380  
 Ala Val Ile Gly Asn Phe Leu Tyr Val Val Gly Gly Gln Ser Asn Tyr  
 385 390 395 400  
 Asp Thr Lys Gly Lys Thr Ala Val Asp Thr Val Phe Arg Phe Asp Pro  
 405 410 415  
 Arg Tyr Asn Lys Trp Met Gln Val Ala Ser Leu Asn Glu Lys Arg Thr  
 420 425 430  
 Phe Phe His Leu Ser Ala Leu Lys Gly Tyr Leu Tyr Ala Val Gly Gly  
 435 440 445  
 Arg Asn Ala Ala Gly Glu Leu Pro Thr Val Glu Cys Tyr Asn Pro Arg  
 450 455 460  
 Thr Asn Glu Trp Thr Tyr Val Ala Lys Met Ser Glu Pro His Tyr Gly  
 465 470 475 480  
 His Ala Gly Thr Val Tyr Gly Gly Val Met Tyr Ile Ser Gly Gly Ile  
 485 490 495  
 Thr His Asp Thr Phe Gln Lys Glu Leu Met Cys Phe Asp Pro Asp Thr  
 500 505 510  
 Asp Lys Trp Ile Gln Lys Ala Pro Met Thr Thr Val Arg Gly Leu His

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Ser Thr Ser His Leu Asp Glu Phe Tyr Ser Asp Pro His Ala Val Ala  
 35 40 45  
 Gly Ala Leu Lys Ser Tyr Leu Arg Glu Leu Pro Glu Pro Leu Met Thr  
 50 55 60  
 Phe Asn Leu Tyr Glu Glu Trp Thr Gln Val Ala Ser Val Gln Asp Gln  
 65 70 75 80  
 Asp Lys Lys Leu Gln Asp Leu Trp Arg Thr Cys Gln Lys Leu Pro Pro  
 85 90 95  
 Gln Asn Phe Val Asn Phe Arg Tyr Leu Ile Lys Phe Leu Ala Lys Leu  
 100 105 110  
 Ala Gln Thr Ser Asp Val Asn Lys Met Thr Pro Ser Asn Ile Ala Ile  
 115 120 125  
 Val Leu Gly Pro Asn Leu Leu Trp Ala Arg Asn Glu Gly Thr Leu Ala  
 130 135 140  
 Glu Met Ala Ala Ala Thr Ser Val His Val Val Ala Val Ile Glu Pro  
 145 150 155 160  
 Ile Ile Gln His Ala Asp Trp Phe Phe Pro Glu Glu Val Glu Phe Asn  
 165 170 175  
 Val Ser Glu Ala Phe Val Pro Leu Thr Thr Pro Ser Ser Asn His Ser  
 180 185 190  
 Phe His Thr Gly Asn Asp Ser Asp Ser Gly Thr Leu Glu Arg Lys Arg  
 195 200 205  
 Pro Ala Ser Met Ala Val Met Glu Gly Asp Leu Val Lys Lys Glu Ser  
 210 215 220  
 Phe Gly Val Lys Leu Met Asp Phe Gln Ala His Arg Arg Gly Gly Thr  
 225 230 235 240  
 Leu Asn Arg Lys His Ile Ser Pro Ala Phe Gln Pro Pro Leu Pro Pro  
 245 250 255  
 Thr Asp Gly Ser Thr Val Val Pro Ala Gly Pro Glu Pro Pro Pro Gln

260	265	270
Ser Ser Arg Ala Glu Ser Ser Ser Gly Gly Gly Thr Val Pro Ser Ser		
275	280	285
Ala Gly Ile Leu Glu Gln Gly Pro Ser Pro Gly Asp Gly Cys Pro Pro		
290	295	300
Lys Pro Lys Asp Pro Val Ser Ala Ala Val Pro Ala Pro Gly Arg Asn		
305	310	315
Asn Ser Gln Ile Ala Ser Gly Gln Asn Gln Pro Gln Ala Ala Ala Gly		
325	330	335
Ser His Gln Leu Ser Met Gly Gln Pro His Asn Ala Ala Gly Pro Ser		
340	345	350
Pro His Thr Leu Arg Arg Ala Val Lys Lys Pro Ala Pro Ala Pro Pro		
355	360	365
Lys Pro Gly Asn Pro Pro Pro Gly His Pro Gly Gly Gln Ser Ser Ser		
370	375	380
Gly Thr Ser Gln His Pro Pro Ser Leu Ser Pro Lys Pro Pro Thr Arg		
385	390	395
Ser Pro Ser Pro Pro Thr Gln His Thr Gly Gln Pro Pro Gly Gln Pro		
405	410	415
Ser Ala Pro Ser Gln Leu Ser Ala Pro Arg Arg Tyr Ser Ser Ser Leu		
420	425	430
Ser Pro Ile Gln Ala Pro Asn His Pro Pro Pro Gln Pro Pro Thr Gln		
435	440	445
Ala Thr Pro Leu Met His Thr Lys Pro Asn Ser Gln Gly Pro Pro Asn		
450	455	460
Pro Met Ala Leu Pro Ser Glu His Gly Leu Glu Gln Pro Ser His Thr		
465	470	475
Pro Pro Gln Thr Pro Thr Pro Pro Ser Thr Pro Pro Leu Gly Lys Gln		
485	490	495

Asn Pro Ser Leu Pro Ala Pro Gln Thr Leu Ala Gly Gly Asn Pro Glu

500

505

510

Thr Ala Gln Pro His Ala Gly Thr Leu Pro Arg Pro Arg Pro Val Pro

515

520

525

Lys Pro Arg Asn Arg Pro Ser Val Pro Pro Pro Pro Gln Pro Pro Gly

530

535

540

Val His Ser Ala Gly Asp Ser Ser Leu Thr Asn Thr Ala Pro Thr Ala

545

550

555

560

Ser Lys Ile Val Thr Asp Ser Asn Ser Arg Val Ser Glu Pro His Arg

565

570

575

Ser Ile Phe Pro Glu Met His Ser Asp Ser Ala Ser Lys Asp Val Pro

580

585

590

Gly Arg Ile Leu Leu Asp Ile Asp Asn Asp Thr Glu Ser Thr Ala Leu

595

600

605

<210> 3238

<211> 510

<212> PRT

<213> Homo sapiens

<400> 3238

Met Val Ala Arg Val Gly Leu Leu Leu Arg Ala Leu Gln Leu Leu Leu

1

5

10

15

Trp Gly His Leu Asp Ala Gln Pro Ala Glu Arg Gly Gly Gln Glu Leu

20

25

30

Arg Lys Glu Ala Glu Ala Phe Leu Glu Lys Tyr Gly Tyr Leu Asn Glu

35

40

45

Gln Val Pro Lys Ala Pro Thr Ser Thr Arg Phe Ser Asp Ala Ile Arg

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Gly Ser Val Ala Val Gln Leu Pro Gly Lys Leu Phe Thr Asp Phe Glu  
 290 295 300  
 Thr Trp Asp Ser Tyr Ser Pro Gln Gly Arg Arg Pro Glu Thr Gln Gly  
 305 310 315 320  
 Pro Lys Tyr Cys His Ser Ser Phe Asp Ala Ile Thr Val Gly Ser His  
 325 330 335  
 Phe Trp Glu Val Ala Ala Asp Gly Asn Val Ser Glu Pro Arg Pro Leu  
 340 345 350  
 Gln Glu Arg Trp Val Gly Leu Pro Pro Asn Ile Glu Ala Ala Ala Val  
 355 360 365  
 Ser Leu Asn Asp Gly Asp Phe Tyr Phe Phe Lys Gly Gly Arg Cys Trp  
 370 375 380  
 Arg Phe Arg Gly Pro Lys Pro Val Trp Gly Leu Pro Gln Leu Cys Arg  
 385 390 395 400  
 Ala Gly Gly Leu Pro Arg His Pro Asp Ala Ala Leu Phe Phe Pro Pro  
 405 410 415  
 Leu Arg Arg Leu Ile Leu Phe Lys Gly Ala Arg Tyr Tyr Val Leu Ala  
 420 425 430  
 Arg Gly Gly Leu Gln Val Glu Pro Tyr Tyr Pro Arg Ser Leu Gln Asp  
 435 440 445  
 Trp Gly Gly Ile Pro Glu Glu Val Ser Gly Ala Leu Pro Arg Pro Asp  
 450 455 460  
 Gly Ser Ile Ile Phe Phe Arg Asp Asp Arg Tyr Trp Arg Leu Asp Gln  
 465 470 475 480  
 Ala Lys Leu Gln Ala Thr Thr Ser Gly Arg Trp Ala Thr Glu Leu Pro  
 485 490 495  
 Trp Met Gly Cys Trp His Ala Asn Ser Gly Ser Ala Leu Phe  
 500 505 510

&lt;210&gt; 3239

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3239

Met Pro Arg Ile Ala Gly Asn His Leu Met Leu Glu Glu Ser Arg Thr

1 5 10 15

Cys Ser Ser Pro Glu Leu Leu Asp Gly Val Trp Pro Cys Gln Pro Leu

20 25 30

His Phe Gly Leu Pro Ala Ser Glu Met His Phe Gln Thr Met Leu Lys

35 40 45

Ser Lys Leu Asn Val Leu Thr Leu Lys Lys Glu Pro Leu Pro Ala Val

50 55 60

Ile Phe His Glu Pro Glu Ala Ile Glu Leu Cys Thr Thr Thr Pro Leu

65 70 75 80

Met Lys Thr Arg Thr His Ser Gly Cys Lys Val Thr Tyr Leu Gly Lys

85 90 95

Val Ser Thr Thr Gly Met Gln Phe Leu Ser Gly Cys Thr Glu Lys Pro

100 105 110

Val Ile Glu Leu Trp Lys Lys His Thr Leu Ala Arg Glu Asp Val Phe

115 120 125

Pro Ala Asn Ala Leu Leu Glu Ile Arg Pro Phe Gln Val Trp Leu His

130 135 140

His Leu Asp His Lys Gly Glu Ala Thr Val His Met Asp Thr Phe Gln

145 150 155 160

Val Ala Arg Ile Ala Tyr Cys Thr Ala Asp His Asn Val Ser Pro Asn

165 170 175

Ile Phe Ala Trp Val Tyr Arg Glu Ile Asn Asp Asp Leu Ser Tyr Gln  
180 185 190  
Met Asp Cys His Ala Val Glu Cys Glu Ser Lys Leu Glu Ala Lys Lys  
195 200 205  
Leu Ala His Ala Met Met Glu Ala Phe Arg Lys Thr Phe His Ser Met  
210 215 220  
Lys Ser Asp Gly Arg Ile His Ser Asn Ser Ser Ser Glu Glu Val Ser  
225 230 235 240  
Gln Glu Leu Glu Ser Asp Asp Gly  
245

&lt;210&gt; 3240

&lt;211&gt; 588

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3240

Met Asp Thr Asn Asp Asp Pro Asp Glu Asp His Leu Thr Ser Tyr Asp  
1 5 10 15  
Ile Gln Leu Ser Ile Gln Glu Ser Ile Glu Ala Ser Lys Thr Ala Leu  
20 25 30  
Cys Pro Glu Arg Phe Val Pro Leu Ser Ala Gln Asn Arg Lys Leu Val  
35 40 45  
Glu Ala Ile Lys Gln Gly His Ile Leu Glu Leu Gln Glu Tyr Val Lys  
50 55 60  
Tyr Lys Tyr Ala Met Asp Glu Ala Asp Glu Lys Gly Trp Phe Pro Leu  
65 70 75 80  
His Glu Ala Val Val Gln Pro Ile Gln Gln Ile Leu Glu Ile Val Leu

	85	90	95
Asp Ala Ser Tyr Lys Thr Leu Trp Glu Phe Lys Thr Cys Asp Gly Glu			
100	105	110	
Thr Pro Leu Thr Leu Ala Val Lys Ala Gly Leu Val Glu Asn Val Arg			
115	120	125	
Thr Leu Leu Glu Lys Gly Val Trp Pro Asn Thr Lys Asn Asp Lys Gly			
130	135	140	
Glu Thr Pro Leu Leu Ile Ala Val Lys Lys Gly Ser Tyr Asp Met Val			
145	150	155	160
Ser Thr Leu Ile Lys His Asn Thr Ser Leu Asp Gln Pro Cys Val Lys			
165	170	175	
Arg Trp Ser Ala Met His Glu Ala Ala Lys Gln Gly Arg Lys Asp Ile			
180	185	190	
Val Ala Leu Leu Leu Lys His Gly Gly Asn Val His Leu Arg Asp Gly			
195	200	205	
Phe Gly Val Thr Pro Leu Gly Val Ala Ala Glu Tyr Gly His Cys Asp			
210	215	220	
Val Leu Glu His Leu Ile His Lys Gly Gly Asp Val Leu Ala Leu Ala			
225	230	235	240
Asp Asp Gly Ala Ser Val Leu Phe Glu Ala Ala Gly Gly Gly Asn Pro			
245	250	255	
Asp Cys Ile Ser Leu Leu Leu Glu Tyr Gly Gly Ser Gly Asn Val Pro			
260	265	270	
Asn Arg Ala Gly His Leu Pro Ile His Arg Ala Ala Tyr Glu Gly His			
275	280	285	
Tyr Leu Ala Leu Lys Tyr Leu Ile Pro Val Thr Ser Lys Asn Ala Ile			
290	295	300	
Arg Lys Ser Gly Leu Thr Pro Ile His Ser Ala Ala Asp Gly Gln Asn			
305	310	315	320

Ala Gln Cys Leu Glu Leu Leu Ile Glu Asn Gly Phe Asp Val Asn Thr  
325 330 335  
Leu Leu Ala Asp His Ile Ser Gln Ser Cys Asp Asp Glu Arg Lys Thr  
340 345 350  
Ala Leu Tyr Phe Ala Val Ser Asn Asn Asp Val His Cys Thr Glu Val  
355 360 365  
Leu Leu Ala Ala Gly Ala Asp Pro Asn Leu Asp Pro Leu Asn Cys Leu  
370 375 380  
Leu Val Ala Val Arg Ala Asn Asn Tyr Glu Ile Val Arg Leu Leu Leu  
385 390 395 400  
Ser His Gly Ala Asn Val Asn Cys Tyr Phe Met His Val Asn Asp Thr  
405 410 415  
Arg Phe Pro Ser Val Ile Gln Tyr Ala Leu Asn Asp Glu Val Met Leu  
420 425 430  
Arg Leu Leu Leu Asn Asn Gly Tyr Gln Val Glu Met Cys Phe Asp Cys  
435 440 445  
Met His Gly Asp Ile Phe Gly Asn Ser Phe Val Trp Ser Glu Ile Gln  
450 455 460  
Glu Glu Val Leu Pro Gly Trp Thr Ser Cys Val Ile Lys Asp Asn Pro  
465 470 475 480  
Phe Cys Glu Phe Ile Thr Val Pro Trp Met Lys His Leu Val Gly Arg  
485 490 495  
Val Thr Arg Val Leu Ile Asp Tyr Met Asp Tyr Val Pro Leu Cys Ala  
500 505 510  
Lys Leu Lys Ser Ala Leu Glu Val Gln Arg Glu Trp Pro Glu Ile Arg  
515 520 525  
Gln Ile Leu Glu Asn Pro Cys Ser Leu Lys His Leu Cys Arg Leu Lys  
530 535 540  
Ile Arg Arg Leu Met Gly Leu Gln Lys Leu Cys Gln Pro Ala Ser Val

545                      550                      555                      560  
 Glu Lys Leu Pro Leu Pro Pro Ala Ile Gln Arg Tyr Ile Leu Phe Lys  
                          565                      570                      575  
 Glu Tyr Asp Leu Tyr Gly Gln Glu Leu Lys Leu Thr  
                          580                      585

<210> 3241

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3241

Met Gln Gly Leu Ser Val Cys Leu Ser Phe Ser Leu Arg Asn Glu Asn  
   1                      5                      10                      15  
 Pro Asp Leu Arg Ala Val Gln Leu Arg Ala His Tyr Leu Pro Ser Pro  
                          20                      25                      30  
 Ser Arg Pro Gln Pro His His Pro Thr Cys Pro Leu Pro Pro Thr Ser  
                          35                      40                      45  
 Ser Gly Ala Phe Ser Arg Cys Leu Met Val Gly Gly Phe Leu Met Gly  
                          50                      55                      60  
 Gln Glu Arg Arg Ala Ser Ser Cys Asp Ser Thr Val Trp Val Lys Cys  
   65                      70                      75                      80  
 Pro Val Arg Ala Trp Cys Gly Glu Leu Ala Ser Glu Glu Pro Leu Val  
                          85                      90                      95  
 Gly Lys Arg Glu Val Gly  
                          100

&lt;210&gt; 3242

&lt;211&gt; 192

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3242

Met Glu Arg Gln Pro Gly Pro Val Arg Gly Lys Leu Gln Ile Phe Gln

1 5 10 15

Lys Thr Glu Lys Asp Pro Gln Ala Arg Ala Gly Ser Pro Val Gln Glu

20 25 30

Tyr His Thr Ala Leu Val Ala Gly Asp Leu Asp His Leu Lys Pro Leu

35 40 45

Met Asp Gln Phe Phe Gln Asp Ala Asn Val Val Phe Glu Ile Asn Lys

50 55 60

Asp Glu Met Glu Trp Gln Val Lys Ser Pro Ala Thr Phe Gly Leu Ser

65 70 75 80

Gly Leu Trp Thr Leu Glu Tyr Lys Arg Glu Leu Thr Thr Pro Leu Cys

85 90 95

Ile Ala Ala Ala His Gly His Thr Ala Cys Val Arg His Leu Leu Gly

100 105 110

Arg Gly Ala Asp Pro Asp Ala Ser Pro Ala Gly Pro Arg Val Pro Asp

115 120 125

Arg Ile Leu Arg Ser Pro Gly Leu Thr Ala Ala His Gly Ala Gly Ala

130 135 140

Ala Gln Pro Arg Leu Ser His Arg Val Ala Arg Arg Leu Pro Gln Gly

145 150 155 160

Ala Glu Asp Leu Cys Ile Cys Pro Arg Ser His Arg Gly Ala Phe Gln

165 170 175

Leu Leu Pro Ser Ala Leu Leu Val Arg Val Leu Glu Gly Ser Asp Ser

180

185

190

&lt;210&gt; 3243

&lt;211&gt; 315

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3243

Met Met Ser Ser Val Ser Thr Glu Ser Lys Leu Gln Gln Ala Val Ser

1

5

10

15

Leu Gln Gly Val Asp Pro Glu Thr Cys Met Ile Val Phe Lys Asn His

20

25

30

Trp Ala Gln Val Val Lys Ile Leu Glu Lys His Asp Pro Leu Lys Asn

35

40

45

Thr Gln Ala Lys Tyr Gly Ser Ile Pro Pro Asp Glu Ala Ser Ala Val

50

55

60

Gln Asn Tyr Val Glu His Met Leu Phe Leu Leu Ile Glu Glu Gln Ala

65

70

75

80

Lys Asp Ala Ala Met Gly Pro Ile Leu Glu Phe Val Val Ser Glu Asn

85

90

95

Ile Met Glu Lys Leu Phe Leu Trp Ser Leu Arg Arg Glu Phe Thr Asp

100

105

110

Glu Thr Lys Ile Glu Gln Leu Lys Met Tyr Glu Met Leu Val Thr Gln

115

120

125

Ser His Gln Pro Leu Leu His His Lys Pro Ile Leu Lys Pro Leu Met

130

135

140

Met Leu Leu Ser Ser Cys Ser Gly Thr Thr Thr Pro Thr Val Glu Glu

145

150

155

160

Lys Leu Val Val Leu Leu Asn Gln Leu Cys Ser Ile Leu Ala Lys Asp  
                     165                    170                    175  
 Pro Ser Ile Leu Glu Leu Phe Phe His Thr Ser Glu Asp Gln Gly Ala  
                     180                    185                    190  
 Ala Asn Phe Leu Ile Phe Ser Leu Leu Ile Pro Phe Ile His Arg Glu  
                     195                    200                    205  
 Gly Ser Val Gly Gln Gln Ala Arg Asp Ala Leu Leu Phe Ile Met Ser  
                     210                    215                    220  
 Leu Ser Ala Glu Asn Thr Met Val Ala His His Ile Val Glu Asn Thr  
                     225                    230                    235                    240  
 Tyr Phe Cys Pro Val Leu Ala Thr Gly Leu Ser Gly Leu Tyr Ser Ser  
                     245                    250                    255  
 Leu Pro Thr Lys Leu Glu Asp Glu Glu Asp Asp Phe Asp Ser Phe Ile  
                     260                    265                    270  
 Ala Glu Met Pro Ala Val Glu Thr Val Pro Ser Pro Phe Val Gly Arg  
                     275                    280                    285  
 Asp Glu Ala Ala Phe Ala Ser Arg His Pro Val Arg Thr Gln Ser Thr  
                     290                    295                    300  
 Pro Phe Thr Gly Pro Phe Ile Ser Val Val Leu  
                     305                    310                    315

&lt;210&gt; 3244

&lt;211&gt; 298

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3244

Met Leu Asp Gly Leu Gln Arg Leu Arg Ser Gln Pro Lys Leu Ala Asp

1	5	10	15
Val Thr Leu Leu Val Gly Gly Arg Glu Leu Pro Cys His Arg Gly Leu			
20	25	30	
Leu Ala Leu Ser Ser Pro Tyr Phe His Ala Met Phe Ala Gly Asp Phe			
35	40	45	
Ala Glu Ser Phe Ser Ala Arg Val Glu Leu Arg Asp Val Glu Pro Ala			
50	55	60	
Val Val Gly Gln Leu Val Asp Phe Val Tyr Thr Gly Arg Leu Thr Ile			
65	70	75	80
Thr Gln Gly Asn Val Glu Ala Leu Thr Arg Thr Ala Ala Arg Leu His			
85	90	95	
Phe Pro Ser Val Gln Lys Val Cys Gly Arg Tyr Leu Gln Gln Gln Leu			
100	105	110	
Asp Ala Ala Asn Cys Leu Gly Ile Cys Glu Phe Gly Glu Gln Gln Gly			
115	120	125	
Leu Leu Gly Val Ala Ala Lys Ala Trp Ala Phe Leu Arg Glu Asn Phe			
130	135	140	
Glu Ala Val Ala Arg Glu Asp Glu Phe Leu Gln Leu Pro Arg Glu Arg			
145	150	155	160
Leu Val Thr Cys Leu Ala Gly Asp Leu Leu Gln Val Gln Pro Glu Gln			
165	170	175	
Gly Arg Leu Glu Ala Leu Met Arg Trp Val Arg His Asp Pro Gln Ala			
180	185	190	
Arg Ala Val His Leu Pro Glu Leu Leu Ser Leu Val His Leu Asp Ala			
195	200	205	
Val Pro Arg Pro Cys Val Gln Gln Leu Leu Ala Ser Glu Pro Leu Ile			
210	215	220	
Gln Glu Ser Glu Ala Cys Arg Ala Ala Leu Ser Gln Gly His Asp Gly			
225	230	235	240

Ala Pro Leu Ala Leu Gln Gln Lys Leu Glu Glu Val Leu Val Val Val

245

250

255

Gly Gly Gln Ala Leu Glu Glu Glu Glu Ala Gly Glu Glu Pro Thr Pro

260

265

270

Gly Leu Gly Asn Phe Ala Phe Tyr Asn Ser Lys Ala Lys Arg Trp Met

275

280

285

Ala Leu Pro Asp Phe Pro Asp Tyr His Lys

290

295

&lt;210&gt; 3245

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3245

Met Cys Arg Cys Arg Arg Tyr Arg Arg Arg Gly Arg Val Trp Gly Gly

1

5

10

15

Ala Gly Asp Ser Arg Ala Ala Gly Asn Arg Ser Gly Ser Gly Ala Ala

20

25

30

Pro Gly Leu Arg Trp Gly Gly Val Arg His Trp Pro His Leu Val Ile

35

40

45

Pro Ala Ala His Arg Pro Gln Phe Pro Arg Leu Leu Asn Gly Tyr Ala

50

55

60

Gly Gly Ala Thr Gly Trp Ile Trp Ile Arg Ile Arg Gly Ile Gly Ile

65

70

75

80

Gly Ala Ser Cys Val Leu Gly Val Ser Cys Asn Leu Glu Leu Gly Val

85

90

95

Ala Arg Phe Val Pro Gln Phe Pro Cys Ile Val Gly Asp Gly Ala

100

105

110

&lt;210&gt; 3246

&lt;211&gt; 676

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3246

Met Glu Pro Arg Gly Gly Gly Ser Ser Gln Phe Ser Ser Cys Pro Gly

1

5

10

15

Pro Ala Ser Ser Gly Asp Gln Met Gln Arg Leu Leu Gln Gly Pro Ala

20

25

30

Pro Arg Pro Pro Gly Glu Pro Pro Gly Ser Pro Lys Ser Pro Gly His

35

40

45

Ser Thr Gly Ser Gln Arg Pro Pro Asp Ser Pro Gly Ala Pro Pro Arg

50

55

60

Ser Pro Ser Arg Lys Lys Arg Arg Ala Val Gly Ala Lys Gly Gly Gly

65

70

75

80

His Thr Gly Ala Ser Ala Ser Ala Gln Thr Gly Ser Pro Leu Leu Pro

85

90

95

Ala Ala Ser Pro Glu Thr Ala Lys Leu Met Ala Lys Ala Gly Gln Glu

100

105

110

Glu Leu Gly Pro Gly Pro Ala Gly Ala Pro Glu Pro Gly Pro Arg Ser

115

120

125

Pro Val Gln Glu Asp Arg Pro Gly Pro Gly Leu Gly Leu Ser Thr Pro

130

135

140

Val Pro Val Thr Glu Gln Gly Thr Asp Gln Ile Arg Thr Pro Arg Arg

145

150

155

160

Ala Lys Leu His Thr Val Ser Thr Thr Val Trp Glu Ala Leu Pro Asp  
165 170 175  
Val Ser Arg Ala Lys Ser Asp Met Ala Val Ser Thr Pro Ala Ser Glu  
180 185 190  
Pro Gln Pro Asp Arg Asp Met Ala Val Ser Thr Pro Ala Ser Glu Pro  
195 200 205  
Gln Ser Asp Arg Asp Met Ala Val Ser Thr Pro Ala Ser Glu Pro Gln  
210 215 220  
Pro Asp Thr Asp Met Ala Val Ser Thr Pro Ala Ser Glu Pro Gln Pro  
225 230 235 240  
Asp Arg Asp Met Ala Val Ser Ile Pro Ala Ser Lys Pro Gln Ser Asp  
245 250 255  
Thr Ala Val Ser Thr Pro Ala Ser Glu Pro Gln Ser Ser Val Ala Leu  
260 265 270  
Ser Thr Pro Ile Ser Lys Pro Gln Leu Asp Thr Asp Val Ala Val Ser  
275 280 285  
Thr Pro Ala Ser Lys His Gly Leu Asp Val Ala Leu Pro Thr Ala Gly  
290 295 300  
Pro Val Ala Lys Leu Glu Val Ala Ser Ser Pro Pro Val Ser Glu Ala  
305 310 315 320  
Val Pro Arg Met Thr Glu Ser Ser Gly Leu Val Ser Thr Pro Val Pro  
325 330 335  
Arg Ala Asp Ala Ala Gly Leu Ala Trp Pro Pro Thr Arg Arg Ala Gly  
340 345 350  
Pro Asp Val Val Glu Met Glu Ala Val Val Ser Glu Pro Ser Ala Gly  
355 360 365  
Ala Pro Gly Cys Cys Ser Gly Ala Pro Ala Leu Gly Leu Thr Gln Val  
370 375 380  
Pro Arg Lys Lys Lys Val Arg Phe Ser Val Ala Gly Pro Gly Pro Asn

385                      390                      395                      400  
Lys Pro Gly Ser Gly Gln Ala Ser Ala Arg Pro Ser Ala Leu Gln Thr  
                         405                      410                      415  
Ala Thr Gly Ala His Gly Gly Pro Gly Ala Trp Glu Ala Val Ala Val  
                         420                      425                      430  
Gly Pro Arg Pro His Gln Pro Arg Ile Leu Lys His Leu Pro Arg Pro  
                         435                      440                      445  
Pro Pro Ser Ala Val Thr Arg Val Gly Pro Gly Ser Ser Phe Ala Val  
                         450                      455                      460  
Thr Leu Pro Glu Ala Tyr Glu Phe Phe Phe Cys Asp Thr Ile Glu Glu  
465                      470                      475                      480  
Asn Glu Glu Ala Glu Ala Ala Ala Ala Gly Gln Asp Pro Ala Gly Val  
                         485                      490                      495  
Gln Trp Pro Asp Ile Cys Glu Phe Phe Phe Pro Asp Val Gly Ala Gln  
                         500                      505                      510  
Arg Ser Arg Arg Arg Gly Ser Pro Glu Pro Leu Pro Arg Ala Asp Pro  
                         515                      520                      525  
Val Pro Ala Pro Ile Pro Gly Asp Pro Val Pro Ile Ser Ile Pro Glu  
                         530                      535                      540  
Val Tyr Glu His Phe Phe Phe Gly Glu Asp Arg Leu Glu Gly Val Leu  
545                      550                      555                      560  
Gly Pro Ala Val Pro Leu Pro Leu Gln Ala Leu Glu Pro Pro Arg Ser  
                         565                      570                      575  
Ala Ser Glu Gly Ala Gly Pro Gly Thr Pro Leu Lys Pro Ala Val Val  
                         580                      585                      590  
Glu Arg Leu His Leu Ala Leu Arg Arg Ala Gly Glu Leu Arg Gly Pro  
                         595                      600                      605  
Val Pro Ser Ser Ala Phe Ser Gln Asn Asp Met Cys Leu Val Phe Val  
                         610                      615                      620

Ala Phe Ala Thr Trp Ala Val Arg Thr Ser Asp Pro His Thr Pro Asp  
 625                      630                      635                      640  
 Ala Trp Lys Thr Ala Leu Leu Ala Asn Val Gly Thr Ile Ser Ala Ile  
                     645                      650                      655  
 Arg Tyr Phe Arg Arg Gln Val Gly Gln Gly Arg Arg Ser His Ser Pro  
                     660                      665                      670  
 Ser Pro Ser Ser  
                     675

<210> 3247

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3247

Met Ser Ser Asn Gln Cys Pro Gly Val His Gly Ser Ser Leu Ala Tyr  
     1                      5                      10                      15  
 Cys Ser Gly Leu His Ser Leu Gly His Cys Cys Leu Cys Arg Tyr Lys  
                     20                      25                      30  
 Lys Lys Lys Lys Glu Lys Gln Lys Lys Glu Gly Thr Ala Ala Ser Gln  
                     35                      40                      45  
 Asn Val Asn Gln Asn Ile Ser Leu Trp Tyr Trp Glu Arg Lys Arg Arg  
                     50                      55                      60  
 Phe Pro Arg Glu Asp Glu Asp Gln Thr Asp Cys Arg Pro Ala Ile Ser  
     65                      70                      75                      80  
 Leu His Cys Thr Trp Ile Gly His Leu Leu Tyr Ala Pro Gly Lys Lys  
                     85                      90                      95  
 Ile Gln Arg Thr Met Leu Leu

100

&lt;210&gt; 3248

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3248

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Met Ala Asp His Asn Pro Asp Ser Asp Ser Thr Pro Arg Thr Leu Leu
  1             5             10             15
Arg Arg Val Leu Asp Thr Ala Asp Pro Arg Thr Pro Arg Arg Pro Arg
      20             25             30
Ser Ala Arg Ala Gly Ala Arg Arg Ala Leu Leu Glu Thr Ala Ser Pro
      35             40             45
Arg Lys Leu Ser Gly Gln Thr Arg Thr Ile Ala Arg Gly Arg Ser His
      50             55             60
Gly Ala Arg Val Ser Thr Gln Pro Thr Asp Pro Lys Gly Pro Trp Leu
      65             70             75             80
Pro Arg Gly Gly Gly Leu Arg Ser Ser Ser Ala Leu Glu Pro Thr Leu
      85             90             95
Arg Lys Ser Gln Gly Arg Arg Thr Asp Trp Leu Leu Gly Ala Leu Pro
      100            105            110
Ile Val Cys Trp Gln Ile Gly Pro Tyr Ser Gly Gln Trp Ala Leu Gly
      115            120            125
Gly Thr Asp Thr Ser Asp Ala Ala Glu Glu His Pro Thr Asn Trp
      130            135            140

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&lt;210&gt; 3249

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3249

Met Lys Glu Lys Ile Leu Arg Ala Ala Arg Glu Lys Gly Arg Ala Thr

1 5 10 15

His Lys Gly Lys Pro Ile Ser Leu Thr Ala Asp Leu Ser Thr Glu Thr

20 25 30

Leu Gln Ala Arg Arg Glu Trp Gly Pro Ile Phe Asn Ile Leu Lys Glu

35 40 45

Lys Asn Phe Gln Pro Arg Ile Ser Tyr Pro Ala Lys Leu Ser Phe Ile

50 55 60

Ser Glu Gly Glu Ile Lys Ser Phe Thr Asp Lys Arg Ile Leu Arg Asp

65 70 75 80

Phe Val Thr Thr Arg Pro Ala Leu Gln Gly Leu Leu Lys Glu Ala Leu

85 90 95

Asn Met Glu Arg Lys Asn Trp

100

&lt;210&gt; 3250

&lt;211&gt; 367

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3250

Met Arg Gln Lys Ile Lys Glu Val Glu Glu Lys Gln Pro Glu Val Lys

1	5	10	15
Thr Gly Phe Ile Ala Ser Phe Leu Asp Phe Leu Lys Ser Gly Pro Lys			
20	25	30	
Gln Gln Phe Ser Thr Leu Ala Val Arg Met Pro Asn Arg Thr Arg Arg			
35	40	45	
Pro Gly Thr Gln Met Val Cys Thr Phe Cys Pro Pro Pro Leu Pro Lys			
50	55	60	
Pro Ser Ser Thr Thr Pro Thr Pro Leu Val Ser Glu Thr Gly Gly Asn			
65	70	75	80
Ser Pro Ser Asp Lys Val Asp Asn Glu Leu Lys Asn Leu Glu His Leu			
85	90	95	
Ser Ser Phe Ser Ser Asp Glu Asp Asp Pro Gly Tyr Ser Gln Asp Ala			
100	105	110	
Tyr Lys Ser Val Ser Thr Pro Leu Thr Thr Leu Asp Ala Thr Ser Asp			
115	120	125	
Lys Lys Lys Lys Thr Glu Ala Leu Gln Val Ala Thr Thr Ser Pro Thr			
130	135	140	
Ala Asn Thr Thr Gly Thr Ala Thr Thr Ser Ser Thr Thr Val Gly Ala			
145	150	155	160
Val Lys Gln Glu Pro Leu His Ser Thr Ser Tyr Ala Val Asn Ile Leu			
165	170	175	
Glu Asn Ile Ser Ser Ser Glu Ser Ser Lys Pro Ile Glu Leu Asp Gly			
180	185	190	
Leu Pro Ser Asp Gln Phe Ala Lys Gly Gln Asp Thr Val Ala Ile Glu			
195	200	205	
Gly Phe Thr Asp Glu Glu Asp Thr Glu Ser Gly Gly Glu Gly Gln Tyr			
210	215	220	
Arg Glu Arg Asp Glu Phe Val Val Lys Ile Glu Asp Ile Glu Thr Phe			
225	230	235	240

出証特 2 0 0 4 - 3 0 5 9 6 6 0

35	40	45
Gly Ser Asn Gly Ala Gly Tyr Lys Ser Arg Ser Leu Ala Arg Ser Cys		
50	55	60
Leu Ser His Phe Lys Ser Asn Gln Pro Tyr Ala Ser Arg Leu Gly Gly		
65	70	75
Pro Thr Cys Lys Val Ser Arg Gly Val Ala Tyr Ser Thr His Arg Thr		
85	90	95
Asn Ala Pro Gly Lys Asp Phe Gln Gly Ile Ser Ala Ala Phe Ser Thr		
100	105	110
Glu Asn Gly Phe His Ser Val Gly His Glu Leu Ala Asp Asn His Ile		
115	120	125
Thr Ser Arg Asp Cys Asn Gly His Leu Leu Asn Cys Tyr Gly Arg Asn		
130	135	140
Glu Ser Ile Ala Ser Thr Pro Pro Gly Glu Asp Arg Lys Ser Pro Arg		
145	150	155
Val Leu Ile Lys Thr Leu Gly Lys Leu Asp Gly Cys Leu Arg Val Glu		
165	170	175
Phe His Asn Gly Gly Asn Pro Ser Lys Val Pro Ala Glu Asp Cys Ser		
180	185	190
Glu Pro Val Gln Leu Leu Arg Tyr Ser Pro Thr Leu Ala Ser Glu Thr		
195	200	205
Ser Pro Val Pro Glu Ala Arg Arg Gly Ser Ser Ala Asp Ser Leu Pro		
210	215	220
Ser His Arg Pro Ser Pro Thr Asp Ser Arg Leu Arg Ser Ser Lys Gly		
225	230	235
Ser Ser Leu Ser Ser Glu Ser Ser Trp Tyr Asp Ser Pro Trp Gly Asn		
245	250	255
Ala Gly Glu Leu Ser Glu Ala Glu Gly Ser Phe Leu Ala Pro Gly Met		
260	265	270

Pro Asp Pro Ser Leu His Ala Ser Phe Pro Pro Gly Asp Ala Lys Lys  
275 280 285

Pro Phe Asn Gln Ser Ser Ser Leu Ser Ser Leu Arg Glu Leu Tyr Lys  
290 295 300

Asp Ala Asn Leu Gly Ser Leu Ser Pro Ser Gly Ile Arg Leu Ser Asp  
305 310 315 320

Glu Tyr Met Gly Thr His Ala Ser Leu Ser Asn His Val Ser Phe Ala  
325 330 335

Ser Asp Ile Asp Val Pro Ser Arg Val Ala His Gly Asp Pro Ile Gln  
340 345 350

Tyr Ser Ser Phe Thr Leu Pro Cys Arg Lys Pro Lys Ala Phe Val Glu  
355 360 365

Asp Thr Ala Lys Lys Asp Ser Leu Lys Ala Arg Met Arg Arg Ile Ser  
370 375 380

Asp Trp Thr Gly Ser Leu Ser Arg Lys Lys Arg Lys Leu Gln Glu Pro  
385 390 395 400

Arg Ser Lys Glu Gly Ser Asp Tyr Phe Asp Ser Arg Ser Asp Gly Leu  
405 410 415

Asn Thr Asp Val Gln Gly Ser Ser Gln Ala Ser Ala Phe Leu Trp Ser  
420 425 430

Gly Gly Ser Thr Gln Ile Leu Ser Gln Arg Ser Glu Ser Thr His Ala  
435 440 445

Ile Gly Ser Asp Pro Leu Arg Gln Asn Ile Tyr Glu Asn Phe Met Arg  
450 455 460

Glu Leu Glu Met Ser Arg Thr Asn Thr Glu Asn Ile Glu Thr Ser Thr  
465 470 475 480

Glu Thr Ala Glu Ser Ser Ser Glu Ser Leu Ser Ser Leu Glu Gln Leu  
485 490 495

Asp Leu Leu Phe Glu Lys Glu Gln Gly Val Val Arg Lys Ala Gly Trp

500	505	510
Leu Phe Phe Lys Pro Leu Val Thr Val Gln Lys Glu Arg Lys Leu Glu		
515	520	525
Leu Val Ala Arg Arg Lys Trp Lys Gln Tyr Trp Val Thr Leu Lys Gly		
530	535	540
Cys Thr Leu Leu Phe Tyr Glu Thr Tyr Gly Lys Asn Ser Met Asp Gln		
545	550	555
Ser Ser Ala Pro Arg Cys Ala Leu Phe Ala Glu Asp Ser Ile Val Gln		
565	570	575
Ser Val Pro Glu His Pro Lys Lys Glu Asn Val Phe Cys Leu Ser Asn		
580	585	590
Ser Phe Gly Asp Val Tyr Leu Phe Gln Ala Thr Ser Gln Thr Asp Leu		
595	600	605
Glu Asn Trp Val Thr Ala Val His Ser Ala Cys Ala Ser Leu Phe Ala		
610	615	620
Lys Lys His Gly Lys Glu Asp Thr Leu Arg Leu Leu Lys Asn Gln Thr		
625	630	635
Lys Asn Leu Leu Gln Lys Ile Asp Met Asp Ser Lys Met Lys Lys Met		
645	650	655
Ala Glu Leu Gln Leu Ser Val Val Ser Asp Pro Lys Asn Arg Lys Ala		
660	665	670
Ile Glu Asn Gln Ile Gln Gln Trp Glu Gln Asn Leu Glu Lys Phe His		
675	680	685
Met Asp Leu Phe Arg Met Arg Cys Tyr Leu Ala Ser Leu Gln Gly Gly		
690	695	700
Glu Leu Pro Asn Pro Lys Ser Leu Leu Ala Ala Ala Ser Arg Pro Ser		
705	710	715
Lys Leu Ala Leu Gly Arg Leu Gly Ile Leu Ser Val Ser Ser Phe His		
725	730	735

Ala Leu Val Cys Ser Arg Asp Asp Ser Ala Leu Arg Lys Arg Thr Leu  
740 745 750  
Ser Leu Thr Gln Arg Gly Arg Asn Lys Lys Gly Ile Phe Ser Ser Leu  
755 760 765  
Lys Gly Leu Asp Thr Leu Ala Arg Lys Gly Lys Glu Lys Arg Pro Ser  
770 775 780  
Ile Thr Gln Val Asp Glu Leu Leu His Ile Tyr Gly Ser Thr Val Asp  
785 790 795 800  
Gly Val Pro Arg Asp Asn Ala Trp Glu Ile Gln Thr Tyr Val His Phe  
805 810 815  
Gln Asp Asn His Gly Val Thr Val Gly Ile Lys Pro Glu His Arg Val  
820 825 830  
Glu Asp Ile Leu Thr Leu Ala Cys Lys Met Arg Gln Leu Glu Pro Ser  
835 840 845  
His Tyr Gly Leu Gln Leu Arg Lys Leu Val Asp Asp Asn Val Glu Tyr  
850 855 860  
Cys Ile Pro Ala Pro Tyr Glu Tyr Met Gln Gln Gln Val Tyr Asp Glu  
865 870 875 880  
Ile Glu Val Phe Pro Leu Asn Val Tyr Asp Val Gln Leu Thr Lys Thr  
885 890 895  
Gly Ser Val Cys Asp Phe Gly Phe Ala Val Thr Ala Gln Val Asp Glu  
900 905 910  
Arg Gln His Leu Ser Arg Ile Phe Ile Ser Asp Val Leu Pro Asp Gly  
915 920 925  
Leu Ala Tyr Gly Glu Gly Leu Arg Lys Gly Asn Glu Ile Met Thr Leu  
930 935 940  
Asn Gly Glu Ala Val Ser Asp Leu Asp Leu Lys Gln Met Glu Ala Leu  
945 950 955 960  
Phe Ser Glu Lys Ser Val Gly Leu Thr Leu Ile Ala Arg Pro Pro Asp

965	970	975
Thr Lys Ala Thr Leu Cys Thr Ser Trp Ser Asp Ser Asp Leu Phe Ser		
980	985	990
Arg Asp Gln Lys Ser Leu Leu Pro Pro Pro Asn Gln Ser Gln Leu Leu		
995	1000	1005
Glu Glu Phe Leu Asp Asn Phe Lys Lys Asn Thr Ala Asn Asp Phe Ser		
1010	1015	1020
Asn Val Pro Asp Ile Thr Thr Gly Leu Lys Arg Ser Gln Thr Asp Gly		
1025	1030	1035
1040		
Thr Leu Asp Gln Val Ser His Arg Glu Lys Met Glu Gln Thr Phe Arg		
1045	1050	1055
Ser Ala Glu Gln Ile Thr Ala Leu Cys Arg Ser Phe Asn Asp Ser Gln		
1060	1065	1070
Ala Asn Gly Met Glu Gly Pro Arg Glu Asn Gln Asp Pro Pro Pro Arg		
1075	1080	1085
Pro Leu Ala Arg His Leu Ser Asp Ala Asp Arg Leu Arg Lys Val Ile		
1090	1095	1100
Gln Glu Leu Val Asp Thr Glu Lys Ser Tyr Val Lys Asp Leu Ser Cys		
1105	1110	1115
1120		
Leu Phe Glu Leu Tyr Leu Glu Pro Leu Gln Asn Glu Thr Phe Leu Thr		
1125	1130	1135
Gln Asp Glu Met Glu Ser Leu Phe Gly Ser Leu Pro Glu Met Leu Glu		
1140	1145	1150
Phe Gln Lys Val Phe Leu Glu Thr Leu Glu Asp Gly Ile Ser Ala Ser		
1155	1160	1165
Ser Asp Phe Asn Thr Leu Glu Thr Pro Ser Gln Phe Arg Lys Leu Leu		
1170	1175	1180
Phe Ser Leu Gly Gly Ser Phe Leu Tyr Tyr Ala Asp His Phe Lys Leu		
1185	1190	1195
1200		

Tyr Ser Gly Phe Cys Ala Asn His Ile Lys Val Gln Lys Val Leu Glu

1205

1210

1215

Arg Ala Lys Thr Asp Lys Ala Phe Lys Ala Phe Leu Asp Ala Arg Asn

1220

1225

1230

Pro Thr Lys Gln His Ser Ser Thr Leu Glu Ser Tyr Leu Ile Lys Pro

1235

1240

1245

Val Gln Arg Val Leu Lys Tyr Pro Leu Leu Leu Lys Glu Leu Val Ser

1250

1255

1260

Leu Thr Asp Gln Glu Ser Glu Glu His Tyr His Leu Thr Glu Ala Leu

1265

1270

1275

1280

Lys Ala Met Glu Lys Val Ala Ser His Ile Asn Glu Met Gln Lys Ile

1285

1290

1295

Tyr Glu Asp Tyr Gly Thr Val Phe Asp Arg Leu Val Ala Glu Gln Ser

1300

1305

1310

Gly Thr Glu Lys Glu Val Thr Glu Leu Ser Met Gly Glu Leu Leu Met

1315

1320

1325

His Ser Thr Val Ser Trp Leu Asn Pro Phe Leu Ser Leu Gly Lys Ala

1330

1335

1340

Arg Lys Asp Leu Glu Leu Thr Val Phe Val Phe Lys Arg Ala Val Ile

1345

1350

1355

1360

Leu Val Tyr Lys Glu Asn Cys

1365

&lt;210&gt; 3252

&lt;211&gt; 238

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3252

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Met Ile Ser Ser Tyr Leu Val Cys Leu Phe Thr Asp Thr Ile Arg Tyr
  1             5             10             15
Leu Ser Leu His Asp Asn Lys Tyr Ile Arg Tyr Phe Pro Gly His Ser
          20             25             30
Lys Arg Val Val Ala Leu Ser Met Ser Pro Val Asp Asp Thr Phe Ile
          35             40             45
Ser Gly Ser Leu Asp Lys Thr Ile Arg Leu Trp Asp Leu Arg Ser Pro
          50             55             60
Asn Cys Gln Gly Leu Met His Leu Gln Gly Lys Pro Val Cys Ser Phe
          65             70             75             80
Asp Pro Glu Gly Leu Ile Phe Ala Ala Gly Val Asn Ser Glu Met Val
          85             90             95
Lys Leu Tyr Asp Leu Arg Ser Phe Asp Lys Gly Pro Phe Ala Thr Phe
          100            105            110
Lys Met Gln Tyr Asp Arg Thr Cys Glu Trp Thr Gly Leu Lys Phe Ser
          115            120            125
Asn Asp Gly Lys Leu Ile Leu Ile Ser Thr Asn Gly Ser Phe Ile Arg
          130            135            140
Leu Ile Asp Ala Phe Lys Gly Val Val Met His Thr Phe Gly Gly Tyr
          145            150            155            160
Ala Asn Ser Lys Ala Val Thr Leu Glu Ala Ser Phe Thr Pro Asp Ser
          165            170            175
Gln Phe Ile Met Ile Gly Ser Glu Asp Gly Lys Ile His Val Trp Asn
          180            185            190
Gly Glu Ser Gly Ile Lys Val Ala Val Leu Asp Gly Lys His Thr Gly
          195            200            205
Pro Ile Thr Cys Leu Gln Phe Asn Pro Lys Phe Met Thr Phe Ala Ser
          210            215            220

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Ala Cys Ser Asn Met Ala Phe Trp Leu Pro Thr Ile Asp Asp  
 225                                      230                                      235

<210> 3253

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3253

Met Gln Glu Ala Thr Leu Ser His Pro Arg Tyr Cys Pro His Thr Gln  
 1                                      5                                      10                                      15  
 Ala Ala Ala Leu Asn Ile Pro His Asn Lys Ala Lys Gly Ser Asp Lys  
                                     20                                      25                                      30  
 Ser Tyr Tyr Ser Gln Pro Ser His Leu Glu Thr Arg Gly Glu Thr Asn  
                                     35                                      40                                      45  
 Leu Pro Leu Asp Val Leu Arg Glu Arg Gln Asp Pro Gln Arg Asn Leu  
                                     50                                      55                                      60  
 Ser Glu Leu Ser Thr Cys Leu Ile Gln Gln Asp Arg Asp Gly Arg Arg  
 65                                      70                                      75                                      80  
 Leu Ala Phe Ser Phe Ala Trp Val Ser Thr Ile Leu Gln Gly Lys Leu  
                                     85                                      90                                      95  
 Cys Gly Gln Leu Gly Asn Thr Thr Ile Asn Trp Arg Gly Met Asn Asn  
                                     100                                      105                                      110  
 Arg Val Ser Gly Ala Val Cys  
 115

<210> 3254

&lt;211&gt; 881

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3254

Met Asn Tyr Pro Gly Arg Gly Ser Pro Arg Ser Pro Glu His Asn Gly

1 5 10 15

Arg Gly Gly Gly Gly Gly Ala Trp Glu Leu Gly Ser Asp Ala Arg Pro

20 25 30

Ala Phe Gly Gly Gly Val Cys Cys Phe Glu His Leu Pro Gly Gly Asp

35 40 45

Pro Asp Asp Gly Asp Val Pro Leu Ala Leu Leu Arg Gly Glu Pro Gly

50 55 60

Leu His Leu Ala Pro Gly Thr Asp Asp His Asn His His Leu Ala Leu

65 70 75 80

Asp Pro Cys Leu Ser Asp Glu Asn Tyr Asp Phe Ser Ser Ala Glu Ser

85 90 95

Gly Ser Ser Leu Arg Tyr Tyr Ser Glu Gly Glu Ser Gly Gly Gly Gly

100 105 110

Gly Gly Ser Ser Leu Ser Leu His Pro Pro Gln Gln Pro Pro Leu Val

115 120 125

Pro Thr Asn Ser Gly Gly Gly Gly Ala Thr Gly Gly Ser Pro Gly Glu

130 135 140

Arg Lys Arg Thr Arg Leu Gly Gly Pro Ala Ala Arg His Arg Tyr Glu

145 150 155 160

Val Val Thr Glu Leu Gly Pro Glu Glu Val Arg Trp Phe Tyr Lys Glu

165 170 175

Asp Lys Lys Thr Trp Lys Pro Phe Ile Gly Tyr Asp Ser Leu Arg Ile

180 185 190

Glu Leu Ala Phe Arg Thr Leu Leu Gln Thr Thr Gly Ala Arg Pro Gln  
 195 200 205  
 Gly Gly Asp Arg Asp Gly Asp His Val Cys Ser Pro Thr Gly Pro Ala  
 210 215 220  
 Ser Ser Ser Gly Glu Asp Asp Asp Glu Asp Arg Ala Cys Gly Phe Cys  
 225 230 235 240  
 Gln Ser Thr Thr Gly His Glu Pro Glu Met Val Glu Leu Val Asn Ile  
 245 250 255  
 Glu Pro Val Cys Val Arg Gly Gly Leu Tyr Glu Val Asp Val Thr Gln  
 260 265 270  
 Gly Glu Cys Tyr Pro Val Tyr Trp Asn Gln Ala Asp Lys Ile Pro Val  
 275 280 285  
 Met Arg Gly Gln Trp Phe Ile Asp Gly Thr Trp Gln Pro Leu Glu Glu  
 290 295 300  
 Glu Glu Ser Asn Leu Ile Glu Gln Glu His Leu Asn Cys Phe Arg Gly  
 305 310 315 320  
 Gln Gln Met Gln Glu Asn Phe Asp Ile Glu Val Ser Lys Ser Ile Asp  
 325 330 335  
 Gly Lys Asp Gly Ser Gly Ile Asn Tyr Ser Ala Val His Ser Phe Lys  
 340 345 350  
 Leu Ser Arg Asn His Val Asp Trp His Ser Val Asp Glu Val Tyr Leu  
 355 360 365  
 Tyr Ser Asp Ala Thr Thr Ser Lys Ile Ala Arg Thr Val Thr Gln Lys  
 370 375 380  
 Leu Gly Phe Ser Lys Ala Ser Ser Ser Gly Thr Arg Leu His Arg Gly  
 385 390 395 400  
 Tyr Val Glu Glu Ala Thr Leu Glu Asp Lys Pro Ser Gln Thr Thr His  
 405 410 415  
 Ile Val Phe Val Val His Gly Ile Gly Gln Lys Met Asp Gln Gly Arg

420 425 430  
Ile Ile Lys Asn Thr Ala Met Met Arg Glu Ala Ala Arg Lys Ile Glu  
435 440 445  
Glu Arg His Phe Ser Asn His Ala Thr His Val Glu Phe Leu Pro Val  
450 455 460  
Glu Trp Arg Ser Lys Leu Thr Leu Asp Gly Asp Thr Val Asp Ser Ile  
465 470 475 480  
Thr Pro Asp Lys Val Arg Gly Leu Arg Asp Met Leu Asn Ser Ser Ala  
485 490 495  
Met Asp Ile Met Tyr Tyr Thr Ser Pro Leu Tyr Arg Asp Glu Leu Val  
500 505 510  
Lys Gly Leu Gln Gln Glu Leu Asn Arg Leu Tyr Ser Leu Phe Cys Ser  
515 520 525  
Arg Asn Pro Asp Phe Glu Glu Lys Gly Gly Lys Val Ser Ile Val Ser  
530 535 540  
His Ser Leu Gly Cys Val Ile Thr Tyr Asp Ile Met Thr Gly Trp Asn  
545 550 555 560  
Pro Val Arg Leu Tyr Glu Gln Leu Leu Gln Lys Glu Glu Glu Leu Pro  
565 570 575  
Asp Glu Arg Trp Met Ser Tyr Glu Glu Arg His Leu Leu Asp Glu Leu  
580 585 590  
Tyr Ile Thr Lys Arg Arg Leu Lys Glu Ile Glu Glu Arg Leu His Gly  
595 600 605  
Leu Lys Ala Ser Ser Met Thr Gln Thr Pro Ala Leu Lys Phe Lys Val  
610 615 620  
Glu Asn Phe Phe Cys Met Gly Ser Pro Leu Ala Val Phe Leu Ala Leu  
625 630 635 640  
Arg Gly Ile Arg Pro Gly Asn Thr Gly Ser Gln Asp His Ile Leu Pro  
645 650 655

Arg Glu Ile Cys Asn Arg Leu Leu Asn Ile Phe His Pro Thr Asp Pro  
660 665 670  
Val Ala Tyr Arg Leu Glu Pro Leu Ile Leu Lys His Tyr Ser Asn Ile  
675 680 685  
Ser Pro Val Gln Ile His Trp Tyr Asn Thr Ser Asn Pro Leu Pro Tyr  
690 695 700  
Glu His Met Lys Pro Ser Phe Leu Asn Pro Ala Lys Glu Pro Thr Ser  
705 710 715 720  
Val Ser Glu Asn Glu Gly Ile Ser Thr Ile Pro Ser Pro Val Thr Ser  
725 730 735  
Pro Val Leu Ser Arg Arg His Tyr Gly Glu Ser Ile Thr Asn Ile Gly  
740 745 750  
Lys Ala Ser Ile Leu Gly Ala Ala Ser Ile Gly Lys Gly Leu Gly Gly  
755 760 765  
Met Leu Phe Ser Arg Phe Gly Arg Ser Ser Thr Thr Gln Ser Ser Glu  
770 775 780  
Thr Ser Lys Asp Ser Met Glu Asp Glu Lys Lys Pro Val Ala Ser Pro  
785 790 795 800  
Ser Ala Thr Thr Val Gly Thr Gln Thr Leu Pro His Ser Ser Ser Gly  
805 810 815  
Phe Leu Asp Ser Ala Leu Glu Leu Asp His Arg Ile Asp Phe Glu Leu  
820 825 830  
Arg Glu Gly Leu Val Glu Ser Arg Tyr Trp Ser Ala Val Thr Ser His  
835 840 845  
Thr Ala Tyr Trp Ser Ser Leu Asp Val Ala Leu Phe Leu Leu Thr Phe  
850 855 860  
Met Tyr Lys His Glu His Asp Asp Ala Lys Pro Asn Leu Asp Pro  
865 870 875 880  
Ile

&lt;210&gt; 3255

&lt;211&gt; 141

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3255

Met Cys Ala Trp Met Ile Asp Ser Phe Gly Asn Glu Glu Gln Arg His  
1 5 10 15  
Lys Phe Cys Pro Pro Leu Cys Thr Met Glu Lys Phe Ala Ser Tyr Cys  
20 25 30  
Leu Thr Glu Pro Gly Ser Gly Ser Asp Ala Ala Ser Leu Leu Thr Ser  
35 40 45  
Ala Lys Lys Gln Gly Asp His Tyr Ile Leu Asn Gly Ser Lys Ala Phe  
50 55 60  
Ile Ser Gly Ala Gly Glu Ser Asp Ile Tyr Val Val Met Cys Arg Thr  
65 70 75 80  
Gly Gly Pro Gly Pro Lys Gly Ile Ser Cys Ile Val Val Glu Lys Gly  
85 90 95  
Thr Pro Gly Leu Ser Phe Gly Lys Lys Glu Lys Lys Val Ser Gly Cys  
100 105 110  
Trp Thr Gly Asn Asn Ser Gly Tyr Glu Thr Leu Pro Pro Ala Ser Pro  
115 120 125  
Thr Pro Ala Leu Phe Gln Lys Thr Gly Leu His Thr Cys  
130 135 140

&lt;210&gt; 3256

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3256

Met Ala Ala Val Ala Ala Thr Ala Ala Ala Lys Gly Asn Gly Gly Gly

1 5 10 15

Gly Gly Arg Ala Gly Ala Gly Asp Ala Ser Gly Thr Arg Lys Lys Lys

20 25 30

Gly Pro Gly Pro Leu Ala Thr Ala Tyr Leu Val Ile Tyr Asn Val Val

35 40 45

Met Thr Ala Gly Trp Leu Val Ile Ala Val Gly Leu Val Arg Ala Tyr

50 55 60

Leu Ala Lys Gly Ser Tyr His Ser Leu Tyr Tyr Ser Ile Glu Lys Pro

65 70 75 80

Leu Lys Phe Phe Gln Thr Gly Ala Leu Leu Glu Ile Leu His Cys Ala

85 90 95

Ile Gly Ile Val Pro Ser Ser Val Val Leu Thr Ser Phe Gln Val. Met

100 105 110

Ser Arg Val Phe Leu Ile Trp Ala Val Thr His Ser Val Lys Glu Val

115 120 125

Gln Ser Glu Asp Ser Val Leu Leu Phe Val Ile Ala Trp Thr Ile Thr

130 135 140

Glu Ile Ile Arg Tyr Ser Phe Tyr Thr Phe Ser Leu Leu Asn His Leu

145 150 155 160

Pro Tyr Leu Ile Lys Trp Ala Arg Tyr Thr Leu Phe Ile Val Leu Tyr

165 170 175

Pro Met Gly Val Ser Gly Glu Leu Leu Thr Ile Tyr Ala Ala Leu Pro

180	185	190	
Phe Val Arg Gln Ala Gly Leu Tyr Ser Ile Ser Leu Pro Asn Lys Tyr			
195	200	205	
Asn Phe Ser Phe Asp Tyr Tyr Ala Phe Leu Ile Leu Ile Met Ile Ser			
210	215	220	
Tyr Ile Pro Ile Phe Pro Gln Leu Tyr Phe His Met Ile His Gln Arg			
225	230	235	240
Arg Lys Ile Leu Ser His Thr Glu Glu His Lys Lys Phe Glu			
245	250		

&lt;210&gt; 3257

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3257

Met Leu Trp Ser Val Pro Gly Asp Arg Ala Ala Pro Gly His Pro Pro
1 5 10 15
Phe Arg Ser Glu Ala Ser His Pro Thr Gln Gly Pro Ser Thr Thr Ser
20 25 30
Pro Phe Ser Pro Phe Leu Gly Ala Asp Pro Gly Gly Ser Ile Tyr Arg
35 40 45
Gly Val Pro Gly Ser Leu Thr Ala Gly Thr Thr Glu Ala Arg Lys Ser
50 55 60
Cys Leu Ala Pro Ala Gln Gly Thr Gln Gly Arg Leu Gly Ala Pro Ala
65 70 75 80
Gly Ser His Ser Pro Arg Arg Gln Gly Leu Val Tyr Pro Cys Ala Met
85 90 95

Ser Val Ile Gly Leu Cys Ala Gly Ser Val Met Arg Ser Leu Pro Gly  
 100 105 110  
 Leu Pro Arg Pro Arg Arg  
 115

<210> 3258

<211> 804

<212> PRT

<213> Homo sapiens

<400> 3258

Met Arg Pro Val Ala Leu Leu Leu Leu Pro Ser Leu Leu Ala Leu Leu  
 1 5 10 15  
 Ala His Gly Leu Ser Leu Glu Ala Pro Thr Val Gly Lys Gly Gln Ala  
 20 25 30  
 Pro Gly Ile Glu Glu Thr Asp Gly Glu Leu Thr Ala Ala Pro Thr Pro  
 35 40 45  
 Glu Gln Pro Glu Arg Gly Val His Phe Val Thr Thr Ala Pro Thr Leu  
 50 55 60  
 Lys Leu Leu Asn His His Pro Leu Leu Glu Glu Phe Leu Gln Glu Gly  
 65 70 75 80  
 Leu Glu Lys Gly Asp Glu Glu Leu Arg Pro Ala Leu Pro Phe Gln Pro  
 85 90 95  
 Asp Pro Pro Ala Pro Phe Thr Pro Ser Pro Leu Pro Arg Leu Ala Asn  
 100 105 110  
 Gln Asp Ser Arg Pro Val Phe Thr Ser Pro Thr Pro Ala Met Ala Ala  
 115 120 125  
 Val Pro Thr Gln Pro Gln Ser Lys Glu Gly Pro Trp Ser Pro Glu Ser

130 135 140  
Glu Ser Pro Met Leu Arg Ile Thr Ala Pro Leu Pro Pro Gly Pro Ser  
145 150 155 160  
Met Ala Val Pro Thr Leu Gly Pro Gly Glu Ile Ala Ser Thr Thr Pro  
165 170 175  
Pro Ser Arg Ala Trp Thr Pro Thr Gln Glu Gly Pro Gly Asp Met Gly  
180 185 190  
Arg Pro Trp Val Ala Glu Val Val Ser Gln Gly Ala Gly Ile Gly Ile  
195 200 205  
Gln Gly Thr Ile Thr Ser Ser Thr Ala Ser Gly Asp Asp Glu Glu Thr  
210 215 220  
Thr Thr Thr Thr Thr Ile Ile Thr Thr Thr Ile Thr Thr Val Gln Thr  
225 230 235 240  
Pro Gly Pro Cys Ser Trp Asn Phe Ser Gly Pro Glu Gly Ser Leu Asp  
245 250 255  
Ser Pro Thr Asp Leu Ser Ser Pro Thr Asp Val Gly Leu Asp Cys Phe  
260 265 270  
Phe Tyr Ile Ser Val Tyr Pro Gly Tyr Gly Val Glu Ile Lys Val Gln  
275 280 285  
Asn Ile Ser Leu Arg Glu Gly Glu Thr Val Thr Val Glu Gly Leu Gly  
290 295 300  
Gly Pro Asp Pro Leu Pro Leu Ala Asn Gln Ser Phe Leu Leu Arg Gly  
305 310 315 320  
Gln Val Ile Arg Ser Pro Thr His Gln Ala Ala Leu Arg Phe Gln Ser  
325 330 335  
Leu Pro Pro Pro Ala Gly Pro Gly Thr Phe His Phe His Tyr Gln Ala  
340 345 350  
Tyr Leu Leu Ser Cys His Phe Pro Arg Arg Pro Ala Tyr Gly Asp Val  
355 360 365

Thr Val Thr Ser Leu His Pro Gly Gly Ser Ala Arg Phe His Cys Ala  
 370 375 380  
 Thr Gly Tyr Gln Leu Lys Gly Ala Arg His Leu Thr Cys Leu Asn Ala  
 385 390 395 400  
 Thr Gln Pro Phe Trp Asp Ser Lys Glu Pro Val Cys Ile Ala Ala Cys  
 405 410 415  
 Gly Gly Val Ile Arg Asn Ala Thr Thr Gly Arg Ile Val Ser Pro Gly  
 420 425 430  
 Phe Pro Gly Asn Tyr Ser Asn Asn Leu Thr Cys His Trp Leu Leu Glu  
 435 440 445  
 Ala Pro Glu Gly Gln Arg Leu His Leu His Phe Glu Lys Val Ser Leu  
 450 455 460  
 Ala Glu Asp Asp Asp Arg Leu Ile Ile Arg Asn Gly Asp Asn Val Glu  
 465 470 475 480  
 Ala Pro Pro Val Tyr Asp Ser Tyr Glu Val Glu Tyr Leu Pro Ile Glu  
 485 490 495  
 Gly Leu Leu Ser Ser Gly Lys His Phe Phe Val Glu Leu Ser Thr Asp  
 500 505 510  
 Ser Ser Gly Ala Ala Ala Gly Met Ala Leu Arg Tyr Glu Ala Phe Gln  
 515 520 525  
 Gln Gly His Cys Tyr Glu Pro Phe Val Lys Tyr Gly Asn Phe Ser Ser  
 530 535 540  
 Ser Thr Pro Thr Tyr Pro Val Gly Thr Thr Val Glu Phe Ser Cys Asp  
 545 550 555 560  
 Pro Gly Tyr Thr Leu Glu Gln Gly Ser Ile Ile Ile Glu Cys Val Asp  
 565 570 575  
 Pro His Asp Pro Gln Trp Asn Glu Thr Glu Pro Ala Cys Arg Ala Val  
 580 585 590  
 Cys Ser Gly Glu Ile Thr Asp Ser Ala Gly Val Val Leu Ser Pro Asn

595 600 605  
Trp Pro Glu Pro Tyr Gly Arg Gly Gln Asp Cys Ile Trp Gly Val His  
610 615 620  
Val Glu Glu Asp Lys Arg Ile Met Leu Asp Ile Arg Val Leu Arg Ile  
625 630 635 640  
Gly Pro Gly Asp Val Leu Thr Phe Tyr Asp Gly Asp Asp Leu Thr Ala  
645 650 655  
Arg Val Leu Gly Gln Tyr Ser Gly Pro Arg Ser His Phe Lys Leu Phe  
660 665 670  
Thr Ser Met Ala Asp Val Thr Ile Gln Phe Gln Ser Asp Pro Gly Thr  
675 680 685  
Ser Val Leu Gly Tyr Gln Gln Gly Phe Val Ile His Phe Phe Glu Val  
690 695 700  
Pro Arg Asn Asp Thr Cys Pro Glu Leu Pro Glu Ile Pro Asn Gly Trp  
705 710 715 720  
Lys Ser Pro Ser Gln Pro Glu Leu Val His Gly Thr Val Val Thr Tyr  
725 730 735  
Gln Cys Tyr Pro Gly Tyr Gln Val Val Gly Ser Ser Val Leu Met Cys  
740 745 750  
Gln Trp Asp Leu Thr Trp Ser Glu Asp Leu Pro Ser Cys Gln Arg Val  
755 760 765  
Thr Ser Cys His Asp Pro Gly Asp Val Glu His Ser Arg Arg Pro Tyr  
770 775 780  
Pro Ala Pro Ser Phe Pro Trp Gly Pro Pro Cys Asn Ile Ser Val Thr  
785 790 795 800  
Arg Val Leu Cys

&lt;210&gt; 3259

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3259

Met Ala Glu Ala Gln Ser Gly Thr Gly Gln Leu Gln Glu Gln Lys Lys

1 5 10 15

Gly Leu Leu Ile Ala Val Ser Val Ser Val Asp Lys Ile Ile Ser His

20 25 30

Phe Gly Ala Ala Arg Asn Leu Val Gln Lys Ala Gln Leu Gly Asp Ser

35 40 45

Arg Leu Ser Pro Asp Val Gly His Leu Val Leu Thr Thr Leu Cys Pro

50 55 60

Ala Leu His Ala Leu Val Ala Asp Gly Leu Lys Pro Phe Arg Lys Asp

65 70 75 80

Leu Ile Thr Gly Gln Arg Arg Ser Ser Pro Trp Ser Val Val Glu Ala

85 90 95

Ser Val Lys Pro Gly Ser Ser Thr Arg Ser Leu Gly Thr Leu Tyr Ser

100 105 110

Gln Val Ser Arg Leu Ala Pro Leu Ser Ser Ser Arg Ser Arg Phe His

115 120 125

Ala Phe Ile Leu Gly Leu Leu Asn Thr Lys Gln Leu Glu Leu Trp Phe

130 135 140

Ser Ser Leu Gln Glu Asp Ala Gly Ser Trp Trp Glu Gln Leu Thr Gln

145 150 155 160

Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu Gly Phe Pro Leu Ser

165 170 175

Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala Glu Glu Gly Ala Gln

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Phe Ser Arg Asp Val Glu Glu Val Arg Ser Leu Leu Ser Gln Lys Glu  
 20 25 30  
 Asn Ile Asn Val Leu Asp Gln Glu Arg Arg Thr Pro Leu His Ala Ala  
 35 40 45  
 Ala Tyr Val Gly Asp Val Pro Ile Leu Gln Leu Leu Leu Met Ser Gly  
 50 55 60  
 Ala Asn Val Asn Ala Lys Asp Thr Leu Trp Leu Thr Pro Leu His Arg  
 65 70 75 80  
 Ala Ala Ala Ser Arg Asn Glu Lys Val Leu Gly Leu Leu Leu Ala His  
 85 90 95  
 Ser Ala Asp Val Asn Ala Arg Asp Lys Leu Trp Gln Thr Pro Leu His  
 100 105 110  
 Val Ala Ala Ala Asn Arg Ala Thr Lys Cys Ala Glu Ala Leu Ala Pro  
 115 120 125  
 Leu Leu Ser Ser Leu Asn Val Ala Asp Arg Ser Gly Arg Ser Ala Leu  
 130 135 140  
 His His Ala Val His Ser Gly His Leu Glu Thr Val Asn Leu Leu Leu  
 145 150 155 160  
 Asn Lys Gly Ala Ser Leu Asn Val Cys Asp Lys Lys Glu Arg Gln Pro  
 165 170 175  
 Leu His Trp Ala Ala Phe Leu Gly His Leu Glu Val Leu Lys Leu Leu  
 180 185 190  
 Val Ala Arg Gly Ala Asp Leu Gly Cys Lys Asp Arg Lys Gly Tyr Gly  
 195 200 205  
 Leu Leu His Thr Ala Ala Ala Ser Gly Gln Ile Glu Val Val Lys Tyr  
 210 215 220  
 Leu Leu Arg Met Gly Ala Glu Ile Asp Glu Pro Asn Ala Phe Gly Asn  
 225 230 235 240  
 Thr Ala Leu His Ile Ala Cys Tyr Leu Gly Gln Asp Ala Val Ala Ile

245	250	255
Glu Leu Val Asn Ala Gly Ala Asn Val Asn Gln Pro Asn Asp Lys Gly		
260	265	270
Phe Thr Pro Leu His Val Ala Ala Val Ser Thr Asn Gly Ala Leu Cys		
275	280	285
Leu Glu Leu Leu Val Asn Asn Gly Ala Asp Val Asn Tyr Gln Ser Lys		
290	295	300
Glu Gly Lys Ser Pro Leu His Met Ala Ala Ile His Gly Arg Phe Thr		
305	310	315
Arg Ser Gln Ile Leu Ile Gln Asn Gly Ser Glu Ile Asp Cys Ala Asp		
325	330	335
Lys Phe Gly Asn Thr Pro Leu His Val Ala Ala Arg Tyr Gly His Glu		
340	345	350
Leu Leu Ile Ser Thr Leu Met Thr Asn Gly Ala Asp Thr Ala Arg Arg		
355	360	365
Gly Ile His Asp Met Phe Pro Leu His Leu Ala Val Leu Phe Gly Phe		
370	375	380
Ser Asp Cys Cys Arg Lys Leu Leu Ser Ser Gly Gln Leu Tyr Ser Ile		
385	390	395
Val Ser Ser Leu Ser Asn Glu His Val Leu Ser Ala Gly Phe Asp Ile		
405	410	415
Asn Thr Pro Asp Asn Leu Gly Arg Thr Cys Leu His Ala Ala Ala Ser		
420	425	430
Gly Gly Asn Val Glu Cys Leu Asn Leu Leu Leu Ser Ser Gly Ala Asp		
435	440	445
Leu Arg Arg Arg Asp Lys Phe Gly Arg Thr Pro Leu His Tyr Ala Ala		
450	455	460
Ala Asn Gly Ser Tyr Gln Cys Ala Val Thr Leu Val Thr Ala Gly Ala		
465	470	475
		480

Gly Val Asn Glu Ala Asp Cys Lys Gly Cys Ser Pro Leu His Tyr Ala  
485 490 495  
Ala Ala Ser Asp Thr Tyr Arg Arg Ala Glu Pro His Thr Pro Ser Ser  
500 505 510  
His Asp Ala Glu Glu Asp Glu Pro Leu Lys Glu Ser Arg Arg Lys Glu  
515 520 525  
Ala Phe Phe Cys Leu Glu Phe Leu Leu Asp Asn Gly Ala Asp Pro Ser  
530 535 540  
Leu Arg Asp Arg Gln Gly Tyr Thr Ala Val His Tyr Ala Ala Ala Tyr  
545 550 555 560  
Gly Asn Arg Gln Asn Leu Glu Leu Leu Leu Glu Met Ser Phe Asn Cys  
565 570 575  
Leu Glu Asp Val Glu Ser Thr Ile Pro Val Ser Pro Leu His Leu Ala  
580 585 590  
Ala Tyr Asn Gly His Cys Glu Ala Leu Lys Thr Leu Ala Glu Thr Leu  
595 600 605  
Val Asn Leu Asp Val Arg Asp His Lys Gly Arg Thr Ala Leu Phe Leu  
610 615 620  
Ala Thr Glu Arg Gly Ser Thr Glu Cys Val Glu Val Leu Thr Ala His  
625 630 635 640  
Gly Ala Ser Ala Leu Ile Lys Glu Arg Lys Arg Lys Trp Thr Pro Leu  
645 650 655  
His Ala Ala Ala Ala Ser Gly His Thr Asp Ser Leu His Leu Leu Ile  
660 665 670  
Asp Ser Gly Glu Arg Ala Asp Ile Thr Asp Val Met Asp Ala Tyr Gly  
675 680 685  
Gln Thr Pro Leu Met Leu Ala Ile Met Asn Gly His Val Asp Cys Val  
690 695 700  
His Leu Leu Leu Glu Lys Gly Ser Thr Ala Asp Ala Ala Asp Leu Arg

705                      710                      715                      720  
Gly Arg Thr Ala Leu His Arg Gly Ala Val Thr Gly Cys Glu Asp Cys  
725                      730                      735  
Leu Ala Ala Leu Leu Asp His Asp Ala Phe Val Leu Cys Arg Asp Phe  
740                      745                      750  
Lys Gly Arg Thr Pro Ile His Leu Ala Ser Ala Cys Gly His Thr Ala  
755                      760                      765  
Val Leu Arg Thr Leu Leu Gln Ala Ala Leu Ser Thr Asp Pro Leu Asp  
770                      775                      780  
Ala Gly Val Asp Tyr Ser Gly Tyr Ser Pro Met His Trp Ala Ser Tyr  
785                      790                      795                      800  
Thr Gly Arg Glu Asp Cys Leu Glu Leu Leu Leu Glu His Ser Pro Phe  
805                      810                      815  
Ser Tyr Leu Glu Gly Asn Pro Phe Thr Pro Leu His Cys Ala Val Ile  
820                      825                      830  
Asn Asn Gln Asp Ser Thr Thr Glu Met Leu Leu Gly Ala Leu Gly Ala  
835                      840                      845  
Lys Ile Val Asn Ser Arg Asp Ala Lys Gly Arg Thr Pro Leu His Ala  
850                      855                      860  
Ala Ala Phe Ala Asp Asn Val Ser Gly Leu Arg Met Leu Leu Gln His  
865                      870                      875                      880  
Gln Ala Glu Val Asn Ala Thr Asp His Thr Gly Arg Thr Ala Leu Met  
885                      890                      895  
Thr Ala Ala Glu Asn Gly Gln Thr Ala Ala Val Glu Phe Leu Leu Tyr  
900                      905                      910  
Arg Gly Lys Ala Asp Leu Thr Val Leu Asp Glu Asn Lys Asn Thr Ala  
915                      920                      925  
Leu His Leu Ala Cys Ser Lys Gly His Glu Lys Cys Ala Leu Met Ile  
930                      935                      940

Leu Ala Glu Thr Gln Asp Leu Gly Leu Ile Asn Ala Thr Asn Ser Ala  
 945                      950                      955                      960  
 Leu Gln Met Pro Leu His Ile Ala Ala Arg Asn Gly Leu Ala Ser Val  
                     965                      970                      975  
 Val Gln Ala Leu Leu Ser His Gly Ala Thr Val Leu Ala Val Asp Glu  
                     980                      985                      990  
 Glu Gly His Thr Pro Ala Leu Ala Cys Ala Pro Asn Lys Asp Val Ala  
                     995                      1000                      1005  
 Asp Cys Leu Ala Leu Ile Leu Ser Thr Met Lys Pro Phe Pro Pro Lys  
                     1010                      1015                      1020  
 Asp Ala Val Ser Pro Phe Ser Phe Ser Leu Leu Lys Asn Cys Ser Ile  
 1025                      1030                      1035                      1040  
 Ala Ala Ala Lys Thr Val Gly Gly Cys Gly Ala Leu Pro His Gly Ala  
                     1045                      1050                      1055  
 Ser Cys Pro Tyr Ser Gln Glu Arg Pro Gly Ala Ile Gly Leu Asp Gly  
                     1060                      1065                      1070  
 Cys Tyr Ser Glu  
                     1075

<210> 3261

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3261

Met His Ser Pro Arg Thr Gln Ile Ile Trp Phe Cys Phe Thr Lys Ser  
                     1                      5                      10                      15  
 Lys Cys Ser Thr Cys Ile Ser Leu Phe Gln Thr Glu Met Ala Ile Lys

	20		25		30
His	Val	Phe	Gln	Lys	Val
		Phe	Ala	Gly	Glu
				Lys	Met
				Arg	Lys
				Val	Lys
	35		40		45
Glu	Ser	Phe	Pro	Asp	Pro
		Asp	Leu	Arg	Arg
				Lys	Gly
				Glu	Asp
				Thr	Phe
	50		55		60
Cys	Phe	Val	Ala	Tyr	Leu
		Leu	Trp	Ala	Lys
				Ser	Tyr
				Tyr	Cys
				Leu	Arg
	65		70		75
					80
Glu	Val	Arg	Leu	Thr	Leu
		Ala	His	Pro	Trp
				Gly	Ile
				Ser	Cys
				Ala	Cys
		85		90	
				95	
Gly	Gly	Glu	Thr	Asn	Gln
		Val	Gly	Asn	Asn
			Ser	Phe	Ser
			Pro	Tyr	Leu
		100		105	
				110	
Ser	Ser	Phe	His	Val	Leu
		Leu	Leu	Trp	Asn
			Lys	Ser	Asp
		115		120	

&lt;210&gt; 3262

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3262

Met	Val	Leu	Leu	Leu	Phe	Cys	Cys	Cys	Leu	Arg	Arg	Ser	Phe	Val	Leu
1				5					10					15	
Val	Ala	Leu	Val	Ala	Gln	Ala	Gly	Val	Gln	Trp	Arg	Asp	Leu	Ser	Ser
				20					25					30	
Pro	Gln	Pro	Pro	Pro	Pro	Gly	Phe	Lys	Gln	Phe	Ser	Cys	Leu	Ser	Leu
				35					40					45	
Pro	Ser	Ser	Trp	Asp	Tyr	Arg	His	Val	Pro	Pro	Pro	His	Pro	Ala	Asn
				50					55					60	

Phe Val Phe Leu Val Glu Thr Gly Phe Leu His Val Asp Gln Ala Gly  
 65 70 75 80  
 Leu Glu Pro Pro Thr Ser Gly Val Pro Pro Thr Ser Ala Phe Gln Ser  
 85 90 95  
 Ala Gly Ile Thr Gly Met Ser His Pro Ala Asn Glu Trp Phe Leu Lys  
 100 105 110  
 Gln Lys Ser Gln  
 115

<210> 3263

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3263

Met Gly Met Leu Ser Leu Gly Glu Pro Glu Lys Ala Ser Leu Arg Arg  
 1 5 10 15  
 Gln Pro Glu Gly Gly Glu Asp Asn Val Lys Lys Glu Pro Val Thr Ala  
 20 25 30  
 Gln Cys Pro Gly Gly Val Gly Val Ser Arg Lys His Ser Arg Gln Arg  
 35 40 45  
 Glu Glu Lys Tyr Arg Gly Arg Thr Ala Val Glu His Leu Gln Glu Ile  
 50 55 60  
 Leu Cys Gly Trp Thr Thr Ala Gln Gly Lys Arg Gly Thr Ser Gly Gly  
 65 70 75 80  
 Arg His Glu Val Gly Lys Glu Met Ala Arg Arg Ser Gln Gly Phe Val  
 85 90 95  
 Gly Tyr Ser Gly Val Asn Gly Arg Arg Gln Ala Thr Phe Ser Leu Leu

100 105 110  
 Ile Ser Phe  
 115

<210> 3264

<211> 244

<212> PRT

<213> Homo sapiens

<400> 3264

Met Ala Pro Ser Ser Glu Ser Ser Val Pro Ser His Ser Met Ser Ser  
 1 5 10 15  
 Arg Arg Asp Thr Asp Ser Asp Thr Gln Asp Ala Asn Asp Ser Ser Cys  
 20 25 30  
 Lys Ser Ser Glu Arg Ser Leu Pro Asp Cys Thr Leu His Pro Asn Ser  
 35 40 45  
 Ile Ser Ile Asp Ala Gly Pro Arg Gln Ala Pro Lys Ile Ala Gln Ile  
 50 55 60  
 Lys Arg Asn Leu Ser Tyr Gly Asp Asn Ser Asp Pro Ala Leu Glu Ala  
 65 70 75 80  
 Ser Ser Leu Pro Pro Pro Asp Pro Trp Leu Glu Thr Ser Ser Ser Ser  
 85 90 95  
 Pro Ala Glu Pro Ala Gln Pro Gly Ala Cys Arg Arg Asp Gly Tyr Trp  
 100 105 110  
 Phe Leu Lys Leu Leu Gln Ala Glu Thr Glu Arg Leu Glu Gly Trp Cys  
 115 120 125  
 Cys Gln Met Asp Lys Glu Thr Lys Glu Asn Asn Leu Ser Glu Glu Val  
 130 135 140

Leu Gly Lys Val Leu Ser Ala Val Gly Ser Ala Gln Leu Leu Met Ser  
 145                      150                      155                      160  
 Gln Lys Phe Gln Gln Phe Arg Gly Leu Cys Glu Gln Asn Leu Asn Pro  
                          165                      170                      175  
 Asp Ala Asn Pro Arg Pro Thr Ala Gln Asp Leu Ala Gly Phe Trp Asp  
                          180                      185                      190  
 Leu Leu Gln Leu Ser Ile Glu Asp Ile Ser Met Lys Phe Asp Glu Leu  
                          195                      200                      205  
 Tyr His Leu Lys Ala Asn Ser Trp Gln Leu Val Glu Thr Pro Glu Lys  
                          210                      215                      220  
 Arg Lys Val Ser Met Glu Gln Cys Gly Gly Glu Val Gln Gly Gln Ile  
 225                      230                      235                      240  
 Pro Gly Arg Gln

&lt;210&gt; 3265

&lt;211&gt; 817

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3265

Met Thr Ser Ala Ala His Ser Glu Asn Tyr Ser Pro Ala Ser Met Val  
   1                      5                      10                      15  
 Thr Glu Val Leu Trp Ile Leu Ser Asp Gln Lys Glu Cys Ala Val Glu  
                          20                      25                      30  
 Cys Leu Tyr Asn Asn Ile Val Ile Glu Thr Leu Leu Gln Pro Ile His  
                          35                      40                      45  
 Asn Leu Met Lys Gly Asn Glu Ala Ser Pro Asn Cys Ser Glu Thr Ala

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Arg Val Thr His Pro Arg Thr Thr Pro Val Asp Pro Ile Asp Arg Ser  
290 295 300  
Cys Gln Lys Ser Phe Leu Ala Leu Val Asn Leu Leu Ser Tyr Pro Ala  
305 310 315 320  
Ile Tyr Glu Leu Val Arg Asn Gln Asp Leu Pro Asn Lys Thr Glu Tyr  
325 330 335  
Ser Leu Arg Glu Val Pro Thr Cys Val Ile Asp Ile Ile Asp Arg Leu  
340 345 350  
Ile Ile Leu Asn Ser Glu Ala Lys Ile Arg Ser Leu Phe Asn Tyr Glu  
355 360 365  
Gln Ser His Ile Phe Gly Leu Arg Leu Leu Ser Val Ile Cys Cys Asp  
370 375 380  
Leu Asp Thr Leu Leu Leu Leu Glu Ala Gln Tyr Gln Val Ser Glu Met  
385 390 395 400  
Leu Leu Asn Ala Gln Glu Glu Asn Ile Leu Glu Ile Ser Glu Ser His  
405 410 415  
Arg Asp Phe Ile Ile Asp Gly Leu Ser Val Glu Arg Asn His Val Leu  
420 425 430  
Val Arg Ile Asn Leu Val Gly Gly Pro Leu Glu Arg Ile Leu Pro Pro  
435 440 445  
Arg Leu Leu Glu Lys Ser Asp Asn Pro Tyr Pro Trp Pro Met Phe Ser  
450 455 460  
Ser Tyr Pro Leu Pro Asn Cys Tyr Leu Ser Asp Ile Thr Arg Asn Ala  
465 470 475 480  
Gly Ile Lys Gln Asp Asn Asp Leu Asp Lys Leu Leu Leu Cys Leu Lys  
485 490 495  
Ile Ser Asp Lys Gln Thr Glu Trp Ile Glu Asn Cys Gln Arg Gln Phe  
500 505 510  
Cys Lys Met Met Lys Ala Lys Pro Asp Ile Ile Ser Gly Glu Ala Leu

515	520	525
Ile Glu Leu Leu Glu Lys Phe Val Leu His Leu Thr Glu Ser Pro Ser		
530	535	540
Glu Cys Tyr Phe Pro Ser Val Glu Tyr Thr Ala Thr Asp Ala Asn Val		
545	550	555
Lys Asn Glu Ser Leu Ser Ser Val Gln Gln Leu Gly Ile Lys Met Thr		
565	570	575
Val Arg Tyr Gly Lys Phe Leu Ser Leu Leu Lys Asp Gly Ala Glu Asn		
580	585	590
Asp Leu Thr Trp Val Leu Lys His Cys Glu Arg Phe Leu Lys Gln Gln		
595	600	605
Gln Thr Ser Ile Lys Ser Ser Leu Leu Cys Leu Gln Gly Asn Tyr Ala		
610	615	620
Gly His Asp Trp Phe Val Ser Ser Leu Phe Met Ile Met Leu Gly Asp		
625	630	635
Lys Glu Lys Thr Phe Gln Phe Leu His Gln Phe Ser Arg Leu Leu Thr		
645	650	655
Ser Ala Phe Leu Trp Leu Pro Arg Leu His Ile Ser Ser Tyr Leu Pro		
660	665	670
Asn Asp Thr Val Glu Ser Gly Ile His Pro Val Tyr Phe Cys Ser Thr		
675	680	685
His Tyr Ile Glu Met Leu Leu Lys Ala Glu Leu Pro Leu Val Phe Ser		
690	695	700
Ala Phe His Met Ser Gly Phe Ala Pro Ser Gln Ile Cys Leu Gln Trp		
705	710	715
Ile Thr Gln Cys Phe Trp Asn Tyr Leu Asp Trp Ile Glu Ile Cys His		
725	730	735
Tyr Ile Ala Thr Cys Val Phe Leu Gly Pro Asp Tyr Gln Val Tyr Ile		
740	745	750

Cys Ile Ala Val Phe Lys His Leu Gln Gln Asp Ile Leu Gln His Thr  
 755 760 765  
 Gln Ala Gln Asp Leu Gln Val Phe Leu Lys Glu Glu Ala Leu His Gly  
 770 775 780  
 Phe Arg Val Ser Asp Tyr Phe Glu Tyr Met Glu Ile Leu Glu Gln Asn  
 785 790 795 800  
 Tyr Arg Thr Val Leu Leu Arg Asp Met Arg Asn Ile Arg Leu Gln Ser  
 805 810 815  
 Thr

<210> 3266

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3266

Met Phe Ser His Leu Gln Ile Phe Val Phe Pro Gln Thr Lys Arg Lys  
 1 5 10 15  
 Lys Thr Thr Leu Tyr Ser Leu Phe Tyr Ser Val Thr Leu Leu Cys Tyr  
 20 25 30  
 Val Arg Asn Leu Lys Tyr Ile Gly Asp Val Gly Ile Leu Ser Leu Thr  
 35 40 45  
 Ala His Cys Thr Gly Gln Glu Ser Thr Val Phe Gln Leu Glu Phe Arg  
 50 55 60  
 Thr Pro Gly Phe Glu Val Glu Asp Asp His Cys Ser Thr Trp Phe Gly  
 65 70 75 80  
 Ile Ala Thr Gly Val Ala Lys Pro Lys Glu Gly Tyr Ile Arg Lys Gly

	85	90	95
Gly Val Arg Arg Gln Asn Lys Glu Lys Glu Glu Trp Val Phe Tyr Leu			
	100	105	110
Phe Ser Phe Ile Asn			
	115		

&lt;210&gt; 3267

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3267

Met Phe Arg Phe His Thr Lys Lys Glu His Thr Phe Thr Ile Phe Ser			
1	5	10	15
Gly Gly Cys Leu Leu Leu His Trp Gln Ala Gly Thr Glu Phe Phe Leu			
	20	25	30
His Asp Lys Ser Gly Gly Leu Leu Val Arg Glu Pro Met Gly Ile Phe			
	35	40	45
Ser Trp Lys Glu Tyr Ser Ser Ile Pro Ser Pro Asn Pro Thr Val Ile			
	50	55	60
Phe Ile Thr Leu Gly Gln Gly Cys Ile Glu Cys Val Cys Val Cys Val			
	65	70	75
Cys Val Cys Val Cys Val Cys Val Arg Val Gly Val Val Leu Gly His			
	85	90	95
Leu Trp Pro Val Thr Lys Val Thr Arg Thr Ile Cys Val Pro Ala Val			
	100	105	110
Ile Ala Cys Asp Cys Gly Cys Ile Ser Ser Leu Pro Arg Ser Leu Val			
	115	120	125

Thr Leu Ser Ala His Gln Gly Arg Glu Leu Ser Thr Asp Thr Cys Gln  
 130 135 140

Gly Pro Leu  
 145

<210> 3268

<211> 797

<212> PRT

<213> Homo sapiens

<400> 3268

Met Ala Ala Leu Ala Tyr Asn Leu Gly Lys Arg Glu Ile Asn His Tyr  
 1 5 10 15  
 Phe Ser Val Arg Ser Ala Lys Val Leu Ala Leu Val Ala Val Leu Leu  
 20 25 30  
 Leu Ala Ala Cys His Leu Ala Ser Arg Arg Tyr Arg Gly Asn Asp Ser  
 35 40 45  
 Cys Glu Tyr Leu Leu Ser Ser Gly Arg Phe Leu Gly Glu Lys Val Trp  
 50 55 60  
 Gln Pro His Ser Cys Met Met His Lys Tyr Lys Ile Ser Glu Ala Lys  
 65 70 75 80  
 Asn Cys Leu Val Asp Lys His Ile Ala Phe Ile Gly Asp Ser Arg Ile  
 85 90 95  
 Arg Gln Leu Phe Tyr Ser Phe Val Lys Ile Ile Asn Pro Gln Phe Lys  
 100 105 110  
 Glu Glu Gly Asn Lys His Glu Asn Ile Pro Phe Glu Asp Lys Thr Ala  
 115 120 125  
 Ser Val Lys Val Asp Phe Leu Trp His Pro Glu Val Asn Gly Ser Met

130                      135                      140  
Lys Gln Cys Ile Lys Val Trp Thr Glu Asp Ser Ile Ala Lys Pro His  
145                      150                      155                      160  
Val Ile Val Ala Gly Ala Ala Thr Trp Ser Ile Lys Ile His Asn Gly  
                         165                      170                      175  
Ser Ser Glu Ala Leu Ser Gln Tyr Lys Met Asn Ile Thr Ser Ile Ala  
                         180                      185                      190  
Pro Leu Leu Glu Lys Leu Ala Lys Thr Ser Asp Val Tyr Trp Val Leu  
                         195                      200                      205  
Gln Asp Pro Val Tyr Glu Asp Leu Leu Ser Glu Asn Arg Lys Met Ile  
                         210                      215                      220  
Thr Asn Glu Lys Ile Asp Ala Tyr Asn Glu Ala Ala Val Ser Ile Leu  
225                      230                      235                      240  
Asn Ser Ser Thr Arg Asn Ser Lys Ser Asn Val Lys Met Phe Ser Val  
                         245                      250                      255  
Ser Lys Leu Ile Ala Gln Glu Thr Ile Met Glu Ser Leu Asp Gly Leu  
                         260                      265                      270  
His Leu Pro Glu Ser Ser Arg Glu Thr Thr Ala Met Ile Leu Met Asn  
                         275                      280                      285  
Val Tyr Cys Asn Lys Ile Leu Lys Pro Val Asp Gly Ser Cys Cys Gln  
                         290                      295                      300  
Pro Arg Pro Pro Val Thr Leu Ile Gln Lys Leu Ala Ala Cys Phe Phe  
305                      310                      315                      320  
Thr Leu Ser Ile Ile Gly Tyr Leu Ile Phe Tyr Ile Ile His Arg Asn  
                         325                      330                      335  
Ala His Arg Lys Asn Lys Pro Cys Thr Asp Leu Glu Ser Gly Glu Glu  
                         340                      345                      350  
Lys Lys Asn Ile Ile Asn Thr Pro Val Ser Ser Leu Glu Ile Leu Leu  
                         355                      360                      365

Gln Ser Phe Cys Lys Leu Gly Leu Ile Met Ala Tyr Phe Tyr Met Cys  
 370 375 380  
 Asp Arg Ala Asn Leu Phe Met Lys Glu Asn Lys Phe Tyr Thr His Ser  
 385 390 395 400  
 Ser Phe Phe Ile Pro Ile Ile Tyr Ile Leu Val Leu Gly Val Phe Tyr  
 405 410 415  
 Asn Glu Asn Thr Lys Glu Thr Lys Val Leu Asn Arg Glu Gln Thr Asp  
 420 425 430  
 Glu Trp Lys Gly Trp Met Gln Leu Val Ile Leu Ile Tyr His Ile Ser  
 435 440 445  
 Gly Ala Ser Thr Phe Leu Pro Val Tyr Met His Ile Arg Val Leu Val  
 450 455 460  
 Ala Ala Tyr Leu Phe Gln Thr Gly Tyr Gly His Phe Ser Tyr Phe Trp  
 465 470 475 480  
 Ile Lys Gly Asp Phe Gly Ile Tyr Arg Val Cys Gln Val Leu Phe Arg  
 485 490 495  
 Leu Asn Phe Leu Val Val Val Leu Cys Ile Val Met Asp Arg Pro Tyr  
 500 505 510  
 Gln Phe Tyr Tyr Phe Val Pro Leu Val Thr Val Trp Phe Met Val Ile  
 515 520 525  
 Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys Lys Ala Asn  
 530 535 540  
 Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu Gly Phe Leu  
 545 550 555 560  
 Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala Phe Glu Lys  
 565 570 575  
 Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu Lys Gly Asn  
 580 585 590  
 Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr Val Val Phe

595 600 605  
His Gly Met Leu Phe Ala Phe Ile Tyr Leu Ala Leu Gln Lys Arg Gln  
610 615 620  
Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn Lys Ile Ser  
625 630 635 640  
Asn Phe Leu Leu Phe Ile Ser Val Val Ser Phe Leu Thr Tyr Ser Ile  
645 650 655  
Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu Leu His Pro  
660 665 670  
Ser Val Ser Val Val Gln Ile Leu Ala Phe Ile Leu Ile Arg Asn Ile  
675 680 685  
Pro Gly Tyr Ala Arg Ser Val Tyr Ser Ser Phe Phe Ala Trp Phe Gly  
690 695 700  
Lys Ile Ser Leu Glu Leu Phe Ile Cys Gln Tyr His Ile Trp Leu Ala  
705 710 715 720  
Ala Asp Thr Arg Gly Ile Leu Val Leu Ile Pro Gly Asn Pro Met Leu  
725 730 735  
Asn Ile Ile Val Ser Thr Phe Ile Phe Val Cys Val Ala His Glu Ile  
740 745 750  
Ser Gln Ile Thr Asn Asp Leu Ala Gln Ile Ile Ile Pro Lys Asp Asn  
755 760 765  
Ser Ser Leu Leu Lys Arg Leu Ala Cys Ile Ala Ala Phe Phe Cys Gly  
770 775 780  
Leu Leu Ile Leu Ser Ser Ile Gln Asp Lys Ser Lys His  
785 790 795

&lt;210&gt; 3269

&lt;211&gt; 763

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3269

Met His Ser Ser Gln Asn Val Gln Thr Gln Glu Ser Ser Ser Pro Gln  
1 5 10 15

Ser Gln Lys Phe Leu Pro Ala Val Gln Ser Ser Ser Phe Ala Ser Ser  
20 25 30

Thr His Cys Gln Thr Leu Gln Asn Asn Ile Thr Ser Pro Asp Pro Lys  
35 40 45

Ser Tyr Ala Glu Arg Lys Leu Asp Ser Asp Val Tyr Pro Ser Ser Lys  
50 55 60

Gln Glu Asp Gly Phe Pro Met Gln Glu Leu Gln Val Leu Gln Pro Gln  
65 70 75 80

Ala Ser Leu Glu Ser Ser Thr Gln Arg Leu Ser Asp Gly Glu Ile Asn  
85 90 95

Ala Gln Glu Ser Thr Tyr Lys Val Ser Lys Ala Asp Asp Arg Tyr Ser  
100 105 110

Gln Ser Val Ile Arg Ser Asn Ser Arg Leu Glu Asp Gln Val Ile Gly  
115 120 125

Val Ala Leu Gln Ala Ser Lys Lys Glu Glu Ser Val Val Gly Ser Val  
130 135 140

Thr Gln Leu Asn Gln Gln Ile Gly Gln Val Asn Asn Ala Ala Thr Leu  
145 150 155 160

Asp Leu Lys Asn Ser Thr Asn Leu Ile Gln Thr Pro Gln Ile Arg Leu  
165 170 175

Asn Thr Lys Asp Leu Lys Gln Gln His Pro Leu Ile Leu Lys Val His  
180 185 190

Glu Ser Lys Val Gln Glu Gln His Asp Gln Ile Ile Asn Ala Ser Ser

195	200	205
Gln Ile Gln Ile Pro Asn His Ala Leu Gly His Gly His Gln Ala Ser		
210	215	220
Leu Pro Asn Thr Gln Val Leu Leu Asp Ser Ala Cys Asp Leu Gln Ile		
225	230	235
Leu Gln Gln Ser Ile Leu Gln Ala Gly Leu Gly Gln Val Lys Ala Ser		
245	250	255
Leu Gln Ala Gln Arg Val Gln Ser Pro Gln Gln Ile Val His Pro Phe		
260	265	270
Leu Gln Met Glu Gly His Val Ile Gln Ser Asn Gly Asp His Ser Gln		
275	280	285
Gln Gln Leu His Pro Gln Asn Ser Glu Val Met Lys Met Asp Leu Ser		
290	295	300
Glu Ser Ser Lys Pro Leu Gln Gln His Leu Thr Thr Lys Gly His Phe		
305	310	315
Ser Glu Thr Asn Gln His Asp Ser Lys Asn Gln Phe Val Ser Leu Gly		
325	330	335
Ser Met Cys Phe Pro Glu Ala Val Leu Leu Ser Asp Glu Arg Asn Ile		
340	345	350
Leu Ser Asn Val Asp Asp Ile Leu Ala Ala Thr Ala Ala Ala Cys Gly		
355	360	365
Val Thr Pro Thr Asp Phe Ser Lys Ser Thr Ser Asn Glu Thr Met Gln		
370	375	380
Ala Val Glu Asp Gly Asp Ser Lys Ser His Phe Gln Gln Ser Leu Asp		
385	390	395
Val Arg His Val Thr Ser Asp Phe Asn Ser Met Thr Ala Thr Val Gly		
405	410	415
Lys Pro Gln Asn Ile Asn Asp Thr Ser Leu Asn Gly Asn Gln Val Thr		
420	425	430

Val Asn Leu Ser Pro Val Pro Ala Leu Gln Ser Lys Met Thr Leu Asp  
435 440 445

Gln Gln His Ile Glu Thr Pro Gly Gln Asn Ile Pro Thr Lys Val Thr  
450 455 460

Ser Ala Val Val Gly Pro Ser His Glu Val Gln Glu Gln Ser Ser Gly  
465 470 475 480

Pro Phe Lys Lys Gln Ser Ala Thr Asn Leu Glu Ser Glu Glu Asp Ser  
485 490 495

Glu Ala Pro Val Asp Ser Thr Leu Asn Asn Asn Arg Asn Gln Glu Phe  
500 505 510

Val Ser Ser Ser Arg Ser Ile Ser Gly Glu Ser Ala Thr Ser Glu Ser  
515 520 525

Glu Phe Thr Leu Gly Gly Asp Asp Ser Gly Val Ser Met Asn Pro Ala  
530 535 540

Arg Ser Ala Leu Ala Leu Leu Ala Met Ala Gln Ser Gly Asp Ala Val  
545 550 555 560

Ser Val Lys Ile Glu Glu Glu Asn Gln Asp Leu Met His Phe Asn Leu  
565 570 575

Gln Lys Lys Gly Ala Lys Gly Lys Gly Gln Val Lys Glu Glu Asp Asn  
580 585 590

Ser Asn Gln Lys Gln Leu Lys Arg Pro Ala Gln Gly Lys Arg Gln Asn  
595 600 605

Pro Arg Gly Thr Asp Ile Tyr Leu Pro Tyr Thr Pro Pro Ser Ser Glu  
610 615 620

Ser Cys His Asp Gly Tyr Gln His Gln Glu Lys Met Arg Gln Lys Ile  
625 630 635 640

Lys Glu Val Glu Glu Lys Gln Pro Glu Val Lys Thr Gly Phe Ile Ala  
645 650 655

Ser Phe Leu Asp Phe Leu Lys Ser Gly Pro Lys Gln Gln Phe Ser Thr

660                                  665                                  670  
 Leu Ala Val Arg Met Pro Asn Arg Thr Arg Arg Pro Gly Thr Gln Met  
                                 675                                  680                                  685  
 Val Arg Thr Phe Cys Pro Pro Pro Leu Pro Lys Pro Ser Ser Thr Thr  
                                 690                                  695                                  700  
 Pro Thr Pro Leu Val Ser Glu Thr Gly Gly Asn Ser Pro Ser Asp Lys  
 705                                  710                                  715                                  720  
 Val Asp Asn Glu Leu Lys Asn Leu Glu His Leu Ser Ser Phe Ser Ser  
                                 725                                  730                                  735  
 Asp Glu Asp Asp Pro Gly Tyr Ser Gln Asp Ala Tyr Lys Ser Val Pro  
                                 740                                  745                                  750  
 Thr Pro Leu Thr Thr Leu Asp Ala Thr Ser Glu  
                                 755                                  760

<210> 3270

<211> 133

<212> PRT

<213> Homo sapiens

<400> 3270

Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Val Ala Asn Lys His  
                                 1                                  5                                  10                                  15  
 Ile Lys Lys Ser Ser Thr Leu Leu Ile Ile Arg Glu Met Gln Arg Arg  
                                 20                                  25                                  30  
 Thr Thr Met Arg Tyr His Leu Met Pro Val Arg Met Val Ile Ile Lys  
                                 35                                  40                                  45  
 Lys Ser Lys Asn Asn Arg Cys Trp Arg Gly Cys Gly Glu Val Gly Thr  
                                 50                                  55                                  60

Leu Leu His Cys Trp Trp Glu Cys Lys Leu Val Gln Pro Leu Trp Lys  
 65 70 75 80  
 Cys Val Trp Leu Phe Leu Lys Asp Leu Glu Leu Glu Ile Leu Phe Val  
 85 90 95  
 Pro Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Glu Tyr Lys Pro Phe  
 100 105 110  
 Tyr Tyr Lys Asp Thr Cys Thr Phe Leu Phe Ile Ala Ala Leu Phe Thr  
 115 120 125  
 Ile Ala Lys Thr Gln  
 130

<210> 3271

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3271

Met Ala Ser Thr Ala Ala Asn Leu Leu Ala Asn Tyr Asn His Ser Cys  
 1 5 10 15  
 Ser Ser Ser Ile Arg Leu Glu Lys Thr Arg Phe Pro Ser Gly Leu Gly  
 20 25 30  
 Ala Phe Ser Ser Ser Arg Glu Thr His Gln Pro Ser Ala Cys Val Ala  
 35 40 45  
 Cys Ala Pro Gly Ala Phe Leu Leu Ile Arg Ser Met Ile Ser Ala Trp  
 50 55 60  
 Leu Gln Gly Pro Ala Lys Ser Val Arg Glu Pro Pro Asn Gly Ala Arg  
 65 70 75 80  
 Ser Arg Arg Ile Ser Arg Ser Glu Thr Ser Leu Ser Pro His Leu Leu

	85	90	95
Thr Gly Asn Leu Gly Gly Phe Gln Leu Met Phe Phe Ser Pro			
100	105	110	

&lt;210&gt; 3272

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3272

Met Ala Thr Ile Lys Ser Glu Leu Ile Lys Asn Phe Ala Glu Glu Glu			
1	5	10	15
Ala Ile His His Asn Lys Ile Ser Ile Val Gly Thr Gly Ser Val Gly			
20	25	30	
Val Ala Cys Ala Ile Ser Ile Leu Leu Lys Gly Leu Ser Asp Glu Leu			
35	40	45	
Val Leu Val Asp Val Asp Glu Gly Lys Leu Lys Gly Glu Thr Met Asp			
50	55	60	
Leu Gln His Gly Ser Pro Phe Met Lys Met Pro Asn Ile Val Ser Ser			
65	70	75	80
Lys Asp Tyr Leu Val Thr Ala Asn Ser Asn Leu Val Ile Ile Thr Ala			
85	90	95	
Gly Ala Arg Gln Lys Lys Gly Glu Thr Arg Leu Asp Leu Val Gln Arg			
100	105	110	
Asn Val Ser Ile Phe Lys Leu Met Ile Pro Asn Ile Thr Gln Tyr Ser			
115	120	125	
Pro His Cys Lys Leu Leu Ile Val Thr Asn Pro Val Asp Ile Leu Thr			
130	135	140	

Tyr Val Ala Trp Lys Leu Ser Gly Phe Pro Lys Asn Arg Val Ile Gly  
145 150 155 160  
Ser Gly Cys Asn Leu Asp Ser Ala Arg Phe Arg Tyr Phe Ile Gly Gln  
165 170 175  
Arg Leu Gly Ile His Ser Glu Ser Cys His Gly Leu Ile Leu Gly Glu  
180 185 190  
His Gly Asp Ser Ser Val Pro Val Trp Ser Gly Val Asn Ile Ala Gly  
195 200 205  
Val Pro Leu Lys Asp Leu Asn Pro Asp Ile Gly Thr Asp Lys Asp Pro  
210 215 220  
Glu Gln Trp Glu Asn Val His Lys Lys Val Ile Ser Ser Gly Tyr Glu  
225 230 235 240  
Met Val Lys Met Lys Gly Tyr Thr Ser Trp Gly Ile Ser Leu Ser Val  
245 250 255  
Ala Asp Leu Thr Glu Ser Ile Leu Lys Asn Leu Arg Arg Val His Pro  
260 265 270  
Val Ser Thr Leu Ser Lys Gly Leu Tyr Gly Ile Asn Glu Asp Ile Phe  
275 280 285  
Leu Ser Val Pro Cys Ile Leu Gly Glu Asn Gly Ile Thr Asp Leu Ile  
290 295 300  
Lys Val Lys Leu Thr Leu Glu Glu Glu Ala Cys Leu Gln Lys Ser Ala  
305 310 315 320  
Glu Thr Leu Trp Glu Ile Gln Lys Glu Leu Lys Leu  
325 330

&lt;210&gt; 3273

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3273

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
 1 5 10 15  
 Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Ala Ala Asp  
 20 25 30  
 Ser Lys Asp Glu Glu Val Lys Val Ala Pro Arg Arg Ser Phe Leu Asp  
 35 40 45  
 Phe Asp Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val  
 50 55 60  
 Gln Cys Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu  
 65 70 75 80  
 Ser Ile Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val  
 85 90 95  
 Leu Thr Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg  
 100 105 110  
 His Gln Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr  
 115 120 125  
 Ser Gly Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro  
 130 135 140  
 Leu Gln Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala  
 145 150 155 160  
 Ile Leu Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala  
 165 170 175  
 Pro His Ala Val His Pro Thr Gly Thr Lys Ala Leu  
 180 185

&lt;210&gt; 3274

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3274

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Met Phe Phe Phe Val Glu Met Gly Phe Tyr His Val Gly Gln Ala Gly
  1             5             10             15
Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser
             20             25             30
Ala Gly Ile Thr Gly Val Ser His Tyr Ala Arg Pro Ala Ala Ala Gly
             35             40             45
Phe Thr Asn Phe Leu Pro Thr Ala Gly Ala Thr Phe Tyr Ser Lys Glu
             50             55             60
Arg Asn Ser Asp His Cys Leu Cys Ser Leu Gly Phe Phe Pro Thr Leu
             65             70             75             80
Ser Asn Gly Ile His Gln Phe His Ser Arg Met Ser Ser Leu Val Leu
             85             90             95
Gly Leu Glu Asn Trp Ala Trp Leu Met Asp
             100             105

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&lt;210&gt; 3275

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3275

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Met Glu Leu Ala Ile Trp Tyr Val Gln Gln Pro Ser Leu Arg Ile Ala

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1	5	10	15
Lys Cys Ile Gly Asn Ile Phe Gln Ala Val Thr Pro Val Thr Ser Lys			
20	25	30	
Gln Arg Ser Cys Leu Cys Leu Leu Ala Leu Ala Tyr Ala Lys Gly Val			
35	40	45	
Phe Asn Asn Phe Gly Phe Gln Leu Phe Thr Leu Trp Phe Gln Leu Arg			
50	55	60	
Leu Gly Arg Asn Trp Pro Gln Asp Lys Val Thr Pro Glu Phe Gly Thr			
65	70	75	80
Lys Pro Gly Ala Lys Asp Ser Asp Gln Thr Ser Trp Ala Ser Gly Ser			
85	90	95	
Ala Pro Arg Gly Leu Lys Pro Thr Arg Val Arg Phe Gly Ile Cys Arg			
100	105	110	
Val			

&lt;210&gt; 3276

&lt;211&gt; 197

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3276

Met Ala Pro Ala Ser Val Pro Ser Ser Leu Gln Gly Gly Leu Gly Ala			
1	5	10	15
Cys Leu Gly Arg Lys Glu Arg Arg Cys Arg Ser Ala Trp Gly Gly Cys			
20	25	30	
Ser Arg Arg Trp Pro Gln Ala Gln Ala Pro Gln Gly Leu Phe Pro Pro			
35	40	45	

Ala Arg Pro Gly Arg Ala Ala Trp Trp Arg Val Arg Glu Asp Pro Gly  
50 55 60  
Gly Gly Pro Ser Cys Lys Asn Trp Trp Gly Pro Arg Ser Pro Pro Ser  
65 70 75 80  
Arg Gly Gly Gly Leu Leu Pro Phe Gly Cys Cys Val Gln Ser Pro Val  
85 90 95  
Ser Cys Ser Leu Arg Leu Tyr Pro Ala Ala Phe Pro Pro Ala Gly Glu  
100 105 110  
Ala Arg Ala Ala Leu Cys Trp Pro Val Leu Pro Leu Pro Thr Arg Val  
115 120 125  
Pro Trp Trp Ser Cys Arg Gly Ala His Val Thr Ser Leu Pro Thr Gly  
130 135 140  
Val Arg Ala Gly Pro Gln Pro Glu Arg Glu Arg Pro Gln Ala Cys Ala  
145 150 155 160  
Gly Gly Gly Asn Gly Gln Leu Arg Val Val Val Pro Gly Ala Leu His  
165 170 175  
Ser Arg Gly Arg Gly Cys Val Arg Gly Val Arg Gly Ile Val Cys Pro  
180 185 190  
Ala Ala Gly Thr Gln  
195

&lt;210&gt; 3277

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3277

Met Ala Thr Val Gly Glu Arg Arg Pro Leu Pro Ser Pro Glu Val Met

1	5	10	15
Leu Gly Gln Ser Trp Asn Leu Trp Val Glu Ala Ser Lys Leu Pro Gly			
20	25	30	
Lys Asp Gly Thr Glu Leu Asp Glu Ser Phe Lys Glu Phe Gly Lys Asn			
35	40	45	
Arg Glu Val Met Gly Leu Cys Arg Glu Asp Met Pro Ile Phe Gly Phe			
50	55	60	
Cys Pro Ala His Asp Asp Phe Tyr Leu Val Val Cys Asn Asp Cys Asn			
65	70	75	80
Gln Val Val Lys Pro Gln Ala Phe Gln Ser His Tyr Glu Arg Arg His			
85	90	95	
Ser Ser Ser Ser Lys Pro Pro Leu Ala Val Pro Pro Thr Ser Val Phe			
100	105	110	
Ser Phe Phe Pro Ser Leu Ser Lys Ser Lys Gly Gly Ser Ala Ser Gly			
115	120	125	
Ser Asn Arg Ser Ser Ser Gly Gly Val Leu Ser Ala Ser Ser Ser Ser			
130	135	140	
Ser Lys Leu Leu Lys His Pro Leu Thr Lys Asn Tyr Ser			
145	150	155	

&lt;210&gt; 3278

&lt;211&gt; 408

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3278

Met Asn Leu Pro Arg Ala Glu Arg Pro Arg Ser Thr Pro Gln Arg Ser
1                      5                      10                      15

Leu Arg Asp Ser Asp Gly Glu Asp Gly Lys Ile Asp Val Leu Gly Glu  
 20 25 30  
 Glu Glu Asp Glu Asp Glu Val Glu Asp Glu Glu Glu Glu Ala Ser Gln  
 35 40 45  
 Lys Phe Leu Glu Gln Ser Leu Gln Pro Gly Leu Gln Val Ala Arg Trp  
 50 55 60  
 Gly Gly Val Ala Leu Pro Arg Glu His Ile Glu Gly Gly Gly Pro Ser  
 65 70 75 80  
 Asp Pro Ser Glu Phe Gly Thr Glu Phe Arg Ala Pro Pro Arg Ser Ala  
 85 90 95  
 Ala Ala Ser Glu Asp Ala Arg Gln Pro Ala Lys Pro Pro Tyr Ser Tyr  
 100 105 110  
 Ile Ala Leu Ile Thr Met Ala Ile Leu Gln Ser Pro His Lys Arg Leu  
 115 120 125  
 Thr Leu Ser Gly Ile Cys Ala Phe Ile Ser Gly Arg Phe Pro Tyr Tyr  
 130 135 140  
 Arg Arg Lys Phe Pro Ala Trp Gln Asn Ser Ile Arg His Asn Leu Ser  
 145 150 155 160  
 Leu Asn Asp Cys Phe Val Lys Ile Pro Arg Glu Pro Gly His Pro Gly  
 165 170 175  
 Lys Gly Thr Tyr Trp Ser Leu Asp Pro Ala Ser Gln Asp Met Phe Asp  
 180 185 190  
 Asn Gly Ser Phe Leu Arg Arg Arg Lys Arg Phe Lys Arg His Gln Leu  
 195 200 205  
 Thr Pro Gly Ala His Leu Pro His Pro Phe Pro Leu Pro Ala Ala His  
 210 215 220  
 Ala Ala Leu His Asn Pro Arg Pro Gly Pro Leu Leu Gly Ala Pro Ala  
 225 230 235 240  
 Leu Pro Gln Pro Val Pro Gly Ala Tyr Pro Asn Thr Ala Pro Gly Arg

245 250 255  
Arg Pro Tyr Ala Leu Leu His Pro His Pro Pro Arg Tyr Leu Leu Leu  
260 265 270  
Ser Ala Pro Ala Tyr Ala Gly Ala Pro Lys Lys Ala Glu Gly Ala Asp  
275 280 285  
Leu Ala Thr Pro Gly Thr Leu Pro Val Leu Gln Pro Ser Leu Gly Pro  
290 295 300  
Gln Pro Trp Glu Glu Gly Lys Gly Leu Ala Ser Pro Pro Gly Gly Gly  
305 310 315 320  
Cys Ile Ser Phe Ser Ile Glu Ser Ile Met Gln Gly Val Arg Gly Ala  
325 330 335  
Gly Thr Gly Ala Ala Gln Ser Leu Ser Pro Thr Ala Trp Ser Tyr Cys  
340 345 350  
Pro Leu Leu Gln Arg Pro Ser Ser Leu Ser Asp Asn Phe Ala Ala Thr  
355 360 365  
Ala Ala Ala Ser Gly Gly Gly Leu Arg Gln Arg Leu Arg Ser His Gln  
370 375 380  
Gly Arg Gly Ala Gly Arg Ala Pro Val Gly Arg Val Gly Ala Ala Ala  
385 390 395 400  
Val Ser Gly Gly Gly Arg Gly Leu  
405

&lt;210&gt; 3279

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3279

Met Gly Asp Leu Leu Pro Arg Ala Trp Pro Gly Ala Gly Cys Thr Glu  
 1 5 10 15  
 Thr Gln Thr Thr Ser Gln Gly Pro Gln Glu Leu Ala Val Pro Thr Ala  
 20 25 30  
 Glu Cys Tyr Ser Cys Ser Phe Tyr Phe Cys Val Cys Pro Glu Ala Leu  
 35 40 45  
 Pro Gln Glu Glu Gln Glu Gly Ser Gly Ser Glu Glu Arg Gly Glu Glu  
 50 55 60  
 Lys Gly Thr Ser Ser Pro Asp Tyr Arg His Tyr Leu Arg Met Trp Ala  
 65 70 75 80  
 Lys Glu Lys Glu Ala Gln Lys Glu Thr Ile Lys Asp Leu Pro Lys Met  
 85 90 95  
 Asn Gln Glu Gln Phe Ile Glu Leu Cys Lys Thr Leu Tyr Asn Met Phe  
 100 105 110  
 Ser Glu Asp Pro Met Glu Gln Asp Leu Tyr His Ala Ile Ala Thr Val  
 115 120 125  
 Ala Ser Leu Leu Leu Arg Ile Gly Glu Val Gly Lys Lys Phe Ser Ala  
 130 135 140  
 Arg Thr Gly Arg Lys Pro Arg Asp Cys Ala Thr Gly Glu Asp Glu Pro  
 145 150 155 160  
 Pro Ala Pro Glu Leu His Gln Asp Ala Ala Arg Glu Leu Gln Pro Pro  
 165 170 175  
 Ala Ala Gly Asp Pro Gln Ala Lys Ala Gly Gly Asp Thr His Leu Gly  
 180 185 190  
 Thr Ala Pro Gln Glu Ser Gln Val Val Val Glu Gly Gly Ser Gly Glu  
 195 200 205  
 Gly Gln Gly Ser Pro Ser Gln Leu Leu Ser Asp Asp Glu Thr Lys Asp  
 210 215 220  
 Asp Met Ser Met Ser Ser Tyr Ser Val Val Ser Thr Gly Ser Leu Gln

出証特 2 0 0 4 - 3 0 5 9 6 6 0

出証特 2 0 0 4 - 3 0 5 9 6 6 0

&lt;400&gt; 3281

Met Ala Ala Val Glu Lys Arg Arg Gln Ala Val Pro Pro Pro Ala Gly  
 1 5 10 15  
 Phe Thr Asp Ser Gly Arg Gln Ser Val Ser Arg Ala Ala Gly Ala Ala  
 20 25 30  
 Glu Ser Glu Glu Asp Phe Leu Arg Gln Val Gly Val Thr Glu Met Leu  
 35 40 45  
 Arg Ala Ala Leu Leu Lys Val Leu Glu Ala Arg Pro Glu Glu Pro Ile  
 50 55 60  
 Ala Phe Leu Ala His Tyr Phe Glu Asn Met Gly Leu Arg Ser Pro Val  
 65 70 75 80  
 Asn Gly Gly Ala Gly Glu Pro Pro Gly Gln Leu Leu Leu Gln Gln Gln  
 85 90 95  
 Arg Leu Gly Arg Ala Leu Trp His Leu Arg Leu Ala His His Ser Arg  
 100 105 110  
 Arg Cys Ala Val Gly Arg Leu Gly Arg Val Gly Gln Arg Trp Thr Ser  
 115 120 125  
 Thr Pro Ser Met Pro Arg Ala Ala Pro Tyr Pro Gln Arg Arg Arg Arg  
 130 135 140  
 Gly Pro Gly Leu Ala Gly Ser Cys Ser Ala Arg Cys Leu Leu Gly Trp  
 145 150 155 160  
 Asp Gly Ser Asp Lys Val Gly Trp Arg Val Arg Ala Ser Val Arg Arg  
 165 170 175

&lt;210&gt; 3282

&lt;211&gt; 924

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3282

Met Ile Ser Gln Thr Gln Ser Leu Gly Gly Pro Pro Leu Glu His Glu  
 1 5 10 15  
 Val Pro Gly His Pro Pro Gly Gly Asp Met Gly Gln Gln Met Asn Met  
 20 25 30  
 Met Ile Gln Arg Leu Gly Gln Asp Ser Leu Thr Pro Glu Gln Val Ala  
 35 40 45  
 Trp Arg Lys Leu Gln Glu Glu Tyr Tyr Glu Glu Lys Arg Arg Lys Glu  
 50 55 60  
 Glu Gln Ile Gly Leu His Gly Ser Arg Pro Leu Gln Asp Met Met Gly  
 65 70 75 80  
 Met Gly Gly Met Met Val Arg Gly Pro Pro Pro Pro Tyr His Ser Lys  
 85 90 95  
 Pro Gly Asp Gln Trp Pro Pro Gly Met Gly Ala Gln Leu Arg Gly Pro  
 100 105 110  
 Met Asp Val Gln Asp Pro Met Gln Leu Arg Gly Gly Pro Pro Phe Pro  
 115 120 125  
 Gly Pro Arg Phe Pro Gly Asn Gln Ile Gln Arg Val Pro Gly Phe Gly  
 130 135 140  
 Gly Met Gln Ser Met Pro Met Glu Val Pro Met Asn Ala Met Gln Arg  
 145 150 155 160  
 Pro Val Arg Pro Gly Met Gly Trp Thr Glu Asp Leu Pro Pro Met Gly  
 165 170 175  
 Gly Pro Ser Asn Phe Ala Gln Asn Thr Met Pro Tyr Pro Gly Gly Gln  
 180 185 190  
 Gly Glu Ala Glu Arg Phe Met Thr Pro Arg Val Arg Glu Glu Leu Leu  
 195 200 205  
 Arg His Gln Leu Leu Glu Lys Arg Ser Met Gly Met Gln Arg Pro Leu

210	215	220	
Gly Met Ala Gly Ser Gly Met Gly Gln Ser Met Glu Met Glu Arg Met			
225	230	235	240
Met Gln Ala His Arg Gln Met Asp Pro Ala Met Phe Pro Gly Gln Met			
245	250	255	
Ala Gly Gly Glu Gly Leu Ala Gly Thr Pro Met Gly Met Glu Phe Gly			
260	265	270	
Gly Gly Arg Gly Leu Leu Ser Pro Pro Met Gly Gln Ser Gly Leu Arg			
275	280	285	
Glu Val Asp Pro Pro Met Gly Pro Gly Asn Leu Asn Met Asn Met Asn			
290	295	300	
Val Asn Met Asn Met Asn Met Asn Leu Asn Val Gln Met Thr Pro Gln			
305	310	315	320
Gln Gln Met Leu Met Ser Gln Lys Met Arg Gly Pro Gly Asp Leu Met			
325	330	335	
Gly Pro Gln Gly Leu Ser Pro Glu Glu Met Ala Arg Val Arg Ala Gln			
340	345	350	
Asn Ser Ser Gly Val Met Gly Gly Pro Gln Lys Met Leu Met Pro Ser			
355	360	365	
Gln Phe Pro Asn Gln Gly Gln Gln Gly Phe Ser Gly Gly Gln Gly Pro			
370	375	380	
Tyr Gln Ala Met Ser Gln Asp Met Gly Asn Thr Gln Asp Met Phe Ser			
385	390	395	400
Pro Asp Gln Ser Ser Met Pro Met Ser Asn Val Gly Thr Thr Arg Leu			
405	410	415	
Ser His Met Pro Leu Pro Pro Ala Ser Asn Pro Pro Gly Thr Val His			
420	425	430	
Ser Ala Pro Asn Arg Gly Leu Gly Arg Arg Pro Ser Asp Leu Thr Ile			
435	440	445	

Ser Ile Asn Gln Met Gly Ser Pro Gly Met Gly His Leu Lys Ser Pro  
 450 455 460  
 Thr Leu Ser Gln Val His Ser Pro Leu Val Thr Ser Pro Ser Ala Asn  
 465 470 475 480  
 Leu Lys Ser Pro Gln Thr Pro Ser Gln Met Val Pro Leu Pro Ser Ala  
 485 490 495  
 Asn Pro Pro Gly Pro Leu Lys Ser Pro Gln Val Leu Gly Ser Ser Leu  
 500 505 510  
 Ser Val Arg Ser Pro Thr Gly Ser Pro Ser Arg Leu Lys Ser Pro Ser  
 515 520 525  
 Met Ala Val Pro Ser Pro Gly Trp Val Ala Ser Pro Lys Thr Ala Met  
 530 535 540  
 Pro Ser Pro Gly Val Ser Gln Asn Lys Gln Pro Pro Leu Asn Met Asn  
 545 550 555 560  
 Ser Ser Thr Thr Leu Ser Asn Met Glu Gln Gly Thr Leu Pro Pro Ser  
 565 570 575  
 Gly Pro Arg Ser Ser Ser Ser Ala Pro Pro Ala Asn Pro Pro Ser Gly  
 580 585 590  
 Leu Met Asn Pro Ser Leu Pro Phe Thr Ser Ser Pro Asp Pro Thr Pro  
 595 600 605  
 Ser Gln Asn Pro Leu Ser Leu Met Met Thr Gln Met Ser Lys Tyr Ala  
 610 615 620  
 Met Pro Ser Ser Thr Pro Leu Tyr His Asn Ala Ile Lys Thr Ile Ala  
 625 630 635 640  
 Thr Ser Asp Asp Glu Leu Leu Pro Asp Arg Pro Leu Leu Pro Pro Pro  
 645 650 655  
 Pro Pro Pro Gln Gly Ser Gly Pro Gly Ile Ser Asn Ser Gln Pro Ser  
 660 665 670  
 Gln Met His Leu Asn Ser Ala Ala Ala Gln Ser Pro Met Gly Met Asn

675 680 685  
Leu Pro Gly Gln Gln Pro Leu Ser His Glu Pro Pro Pro Ala Met Leu  
690 695 700  
Pro Ser Pro Thr Pro Leu Gly Ser Asn Ile Pro Leu His Pro Asn Ala  
705 710 715 720  
Gln Gly Thr Gly Gly Pro Pro Gln Asn Ser Met Met Met Ala Pro Gly  
725 730 735  
Gly Pro Asp Ser Leu Asn Ala Pro Cys Gly Pro Val Pro Ser Ser Ser  
740 745 750  
Gln Met Met Pro Phe Pro Pro Arg Leu Gln Gln Pro His Gly Ala Met  
755 760 765  
Ala Pro Thr Gly Gly Gly Gly Gly Gly Gly Pro Gly Leu Gln Gln His Tyr  
770 775 780  
Pro Ser Gly Met Ala Leu Pro Pro Glu Asp Leu Pro Asn Gln Pro Pro  
785 790 795 800  
Gly Pro Met Pro Pro Gln Gln His Leu Met Gly Lys Ala Met Ala Gly  
805 810 815  
Arg Met Gly Asp Ala Tyr Pro Pro Gly Val Leu Pro Gly Val Ala Ser  
820 825 830  
Val Leu Asn Asp Pro Glu Leu Ser Glu Val Ile Arg Pro Thr Pro Thr  
835 840 845  
Gly Ile Pro Glu Phe Asp Leu Ser Arg Ile Ile Pro Ser Trp Phe Leu  
850 855 860  
Arg Thr Arg Pro Phe Ser Phe Cys Leu Tyr Leu Leu Arg Ile Leu Ser  
865 870 875 880  
Leu Leu Met Trp Leu Thr Pro Leu Pro Pro Leu Pro Ala Gly Gly Trp  
885 890 895  
Pro Gly Gly Gln Val Pro Ala Gly Ala Val Asn Arg Ala Leu Arg Phe  
900 905 910

Cys Ala Gly Leu Cys Val Cys Cys Ile Ser Val Phe  
 915 920

<210> 3283

<211> 428

<212> PRT

<213> Homo sapiens

<400> 3283

Met Ser Ser Gly Leu Arg Ala Ala Asp Phe Pro Arg Trp Lys Arg His  
 1 5 10 15  
 Ile Ser Glu Gln Leu Arg Arg Arg Asp Arg Leu Gln Arg Gln Ala Phe  
 20 25 30  
 Glu Glu Ile Ile Leu Gln Tyr Asn Lys Leu Leu Glu Lys Ser Asp Leu  
 35 40 45  
 His Ser Val Leu Ala Gln Lys Leu Gln Ala Glu Lys His Asp Val Pro  
 50 55 60  
 Asn Arg His Glu Ile Arg Arg Arg Gln Ala Arg Leu Gln Lys Glu Leu  
 65 70 75 80  
 Ala Glu Ala Ala Lys Glu Pro Leu Pro Val Glu Gln Asp Asp Asp Ile  
 85 90 95  
 Glu Val Ile Val Asp Glu Thr Ser Asp His Thr Glu Glu Thr Ser Pro  
 100 105 110  
 Val Arg Ala Ile Ser Arg Ala Ala Thr Lys Arg Leu Ser Gln Pro Ala  
 115 120 125  
 Gly Gly Leu Leu Asp Ser Ile Thr Asn Ile Phe Gly Arg Arg Ser Val  
 130 135 140  
 Ser Ser Phe Pro Val Pro Gln Asp Asn Val Asp Thr His Pro Gly Ser

145                      150                      155                      160  
Gly Lys Glu Val Arg Val Pro Ala Thr Ala Leu Cys Val Phe Asp Ala  
                         165                      170                      175  
His Asp Gly Glu Val Asn Ala Val Gln Phe Ser Pro Gly Ile Thr Ser  
                         180                      185                      190  
Ile Glu Phe Asp Ser Ala Gly Ser Tyr Leu Leu Ala Ala Ser Asn Asp  
                         195                      200                      205  
Phe Ala Ser Arg Ile Trp Thr Val Asp Asp Tyr Arg Leu Arg His Thr  
                         210                      215                      220  
Leu Thr Gly His Ser Gly Lys Val Leu Ser Ala Lys Phe Leu Leu Asp  
225                      230                      235                      240  
Asn Ala Arg Ile Val Ser Gly Ser His Asp Arg Thr Leu Lys Leu Trp  
                         245                      250                      255  
Asp Leu Arg Ser Lys Val Cys Ile Lys Thr Val Phe Ala Gly Ser Ser  
                         260                      265                      270  
Cys Asn Asp Ile Val Cys Thr Glu Gln Cys Val Met Ser Gly His Phe  
                         275                      280                      285  
Asp Lys Lys Ile Arg Phe Trp Asp Ile Arg Ser Glu Ser Ile Val Arg  
                         290                      295                      300  
Glu Met Glu Leu Leu Gly Lys Ile Thr Ala Leu Asp Leu Asn Pro Glu  
305                      310                      315                      320  
Arg Thr Glu Leu Leu Ser Cys Ser Arg Asp Asp Leu Leu Lys Val Ile  
                         325                      330                      335  
Asp Leu Arg Thr Asn Ala Ile Lys Gln Thr Phe Ser Ala Pro Gly Phe  
                         340                      345                      350  
Lys Cys Gly Ser Asp Trp Thr Arg Val Val Phe Ser Pro Asp Gly Ser  
                         355                      360                      365  
Tyr Val Ala Ala Gly Ser Ala Glu Gly Ser Leu Tyr Ile Trp Ser Val  
                         370                      375                      380

Leu Thr Gly Lys Val Glu Lys Val Leu Ser Lys Gln His Ser Ser Ser  
 385                      390                      395                      400  
 Ile Asn Ala Val Ala Trp Ser Pro Ser Gly Ser His Val Val Ser Val  
                     405                      410                      415  
 Asp Lys Gly Cys Lys Ala Val Leu Trp Ala Gln Tyr  
                     420                      425

<210> 3284

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3284

Met Arg Met Val Pro Met Glu Met Phe Asn Tyr Cys Ser Gln Leu Glu  
 1                      5                      10                      15  
 Asp Glu Asn Ser Ser Ala Gly Leu Asp Ile Pro Gly Pro Pro Cys Thr  
                     20                      25                      30  
 Lys Ala Ser Pro Glu Pro Ala Lys Pro Lys Pro Gly Ala Gln His Ser  
                     35                      40                      45  
 Leu Pro Thr Glu Ala Glu Ala Pro Ala Gly Glu Arg Glu Ala Ser His  
                     50                      55                      60  
 Gly His Gly Asp His Cys Arg Gly Arg Val Arg Arg Arg Leu His His  
 65                      70                      75                      80  
 Asp Gly Gly Gly Arg Cys Leu Trp Leu His Leu Arg Leu Pro His Gly  
                     85                      90                      95  
 Gln Val Pro Pro Gly Ala Gln Lys Ala Pro Ala Pro Asp Gly Gly Pro  
                     100                      105                      110  
 Arg Gly Arg Ala Arg Gly Pro Glu Ala Asp Leu Phe Cys Gly Leu Ser

115 120 125  
 Ala His Pro His Pro Ala Arg  
 130 135

<210> 3285

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3285

Met Glu His Phe Gly Ser Gly Leu Met Gly Glu Ser Pro Phe Ile Phe  
 1 5 10 15  
 Leu His Leu Gly Gln Leu His Ser Lys Glu Arg Asn Lys Gly His Val  
 20 25 30  
 Leu Pro Lys Ala Ser Gly Leu Thr Gly Gln Ser Gln Pro Phe Arg Glu  
 35 40 45  
 Gly Met Ser Pro Lys Glu Gly Ser Pro Phe Phe Pro Glu His Pro Pro  
 50 55 60  
 Leu Ser Ala Glu Leu Leu Leu Pro Thr His Pro Ser Thr Ile Ala Leu  
 65 70 75 80  
 Ser Thr Val Cys Pro Cys Gln Asn Pro Ser Pro Thr Cys Leu Ala Trp  
 85 90 95  
 Tyr Pro Ser Leu Gly Gly Arg Gln  
 100

<210> 3286

<211> 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3286

Met Leu Gly Ile Ser Ala Ile Gly Gly Leu Cys Cys Leu His Arg Leu  
1 5 10 15  
Tyr Ser Cys Ile Pro Gly Glu Gly Gly Arg Ala Ala Lys Glu Lys Ser  
20 25 30  
Gln Ser Gln Gln Pro Ala Leu Arg Pro Ser Lys Leu Cys Thr Gly Gly  
35 40 45  
Leu Gly Ser Ala Leu Trp Ala Arg Gly Ala Gly Lys Arg Ala Gly Arg  
50 55 60  
Gly Thr Ala Ala Thr Ser Ala Arg Ala Ala Gln Glu Ala Pro Pro Tyr  
65 70 75 80  
Thr Ala Leu Gln Val Pro Gln Arg Glu Gln Pro Met Leu Pro Lys His  
85 90 95  
Pro Leu His Thr His Gln Gly Ser Trp Arg Arg Glu Val Pro Gln Gly  
100 105 110  
Lys Ala Pro Ser Pro Arg Arg Ala Ser Gly Pro Gly Leu Leu Trp Leu  
115 120 125  
Pro Thr Ala Ile Ile Ser Ile Tyr Arg Ala Gln Ser  
130 135 140

&lt;210&gt; 3287

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3287

Met Ser Leu Leu Pro Asn Ser His Gln Ile Phe Leu Ile Glu Phe Leu  
 1 5 10 15  
 Val Leu Val Pro Asp Arg Thr Asn Asp Ser Pro Asn Leu Pro Val Phe  
 20 25 30  
 Met Arg Glu Lys Glu Lys Gly Ile Lys Gly Gly Arg Lys Lys Lys Pro  
 35 40 45  
 Asn Ser Val Tyr Gly Glu Lys Gly Phe Cys Phe Ser Pro Asn Leu Gly  
 50 55 60  
 Gly Gly Arg Gly Gly Phe Ser Phe Tyr Phe Cys Phe Cys Phe Tyr Leu  
 65 70 75 80  
 Gly Phe Cys Phe Ser His Val Tyr Ser Ala Arg Ser Val Glu Gly Gly  
 85 90 95  
 Leu Gly Glu Gly Glu Leu Glu Lys Glu Leu Met Gly Ser Tyr Pro Gly  
 100 105 110  
 Leu

&lt;210&gt; 3288

&lt;211&gt; 209

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3288

Met Lys Gly Gly Ala Gly Gly Ala Arg Pro Pro Pro Gly Arg Pro Val  
 1 5 10 15  
 Arg Ser Gly Ala Asn Ala Ile Pro Gly Pro Thr Ala Arg Gly Arg Cys  
 20 25 30

Gly Pro Pro Asn Pro Pro Pro Arg Pro Gly Trp Gly Gly Gly Ala Gly  
35 40 45  
Gly Asp Gln Arg Leu Val Ser Leu Arg Ser Asp Leu Arg Gln Arg Gly  
50 55 60  
Arg Asp Ile Met Thr Val Gly Ala Arg Leu Arg Ser Lys Ala Glu Ser  
65 70 75 80  
Ser Leu Leu Arg Arg Gly Pro Arg Gly Arg Gly Arg Thr Glu Gly Asp  
85 90 95  
Glu Glu Ala Ala Ala Ile Leu Glu His Leu Glu Tyr Ala Asp Glu Ala  
100 105 110  
Glu Ala Ala Ala Glu Ser Gly Thr Ser Ala Ala Asp Glu Arg Gly Pro  
115 120 125  
Gly Thr Arg Gly Ala Arg Arg Val His Phe Ala Leu Leu Pro Glu Arg  
130 135 140  
Tyr Glu Pro Leu Glu Glu Pro Ala Pro Ser Glu Gln Pro Arg Lys Arg  
145 150 155 160  
Tyr Arg Arg Lys Leu Lys Lys Tyr Gly Lys Asn Val Gly Lys Val Ile  
165 170 175  
Ile Lys Gly Cys Arg Tyr Val Val Ile Gly Leu Gln Gly Phe Ala Ala  
180 185 190  
Ala Tyr Ser Ala Pro Phe Ala Val Ala Thr Ser Val Val Ser Phe Val  
195 200 205  
Arg

&lt;210&gt; 3289

&lt;211&gt; 107

&lt;212&gt; PRT

<213> Homo sapiens

<400> 3289

Met	Lys	Ala	Trp	Ser	Asn	Ala	Met	Trp	Ser	Ser	Gly	Lys	Pro	Gln	Asn
1				5				10					15		
Gly	Val	Ser	Ser	Trp	Thr	Ser	Cys	Ile	Arg	Val	His	Thr	Pro	Gln	Gly
				20				25					30		
Leu	Asn	Pro	Cys	Pro	Leu	Ser	Lys	Glu	Leu	Gly	Leu	Asn	Ala	Val	Arg
				35				40					45		
Asp	Cys	Leu	Phe	Val	Val	Ile	Phe	Ile	Glu	Arg	Ser	Ser	Phe	Pro	Leu
				50				55					60		
Pro	Pro	Trp	Leu	Ser	Gln	Leu	Val	Val	Ile	Ala	Asp	Ser	Phe	Pro	Glu
				65				70					75		80
Arg	Thr	Phe	Asn	Arg	Phe	Lys	Lys	Asn	Val	Leu	Asp	Trp	Val	Pro	Lys
				85				90					95		
Lys	Gln	Ser	Leu	Lys	Gln	Gly	Phe	Val	Cys	Lys					
				100				105							

<210> 3290

<211> 357

<212> PRT

<213> Homo sapiens

<400> 3290

Met	Leu	Gln	Gln	Ile	Leu	His	Asp	Met	Tyr	Ile	Asp	Pro	Glu	Leu	Leu
1				5				10					15		
Ala	Glu	Leu	Ser	Asp	Val	Gln	Lys	His	Ile	Leu	Phe	Tyr	Lys	Met	Arg
				20				25					30		

Glu Glu Gln Leu Arg Arg Trp Lys Glu Arg Glu Thr Trp Glu Ala Leu  
35 40 45  
Ala Gln Asp Glu Gly Leu Arg Pro Pro Lys Thr Lys Arg Ala Ala Ser  
50 55 60  
Asp Lys His Ile Gln Trp Leu Leu Gly Ala Asp Gly Glu Val Trp Val  
65 70 75 80  
Trp Ile Met Gly Glu Gly Pro Gly Asp Lys Pro Tyr Glu Glu Ile Ser  
85 90 95  
Glu Glu Leu Ile Ala Glu Arg Ala Arg Leu Gln Ala Gln Arg Glu Ala  
100 105 110  
Glu Glu Leu Trp Arg Gln Lys Glu Ala Glu Ile Thr Lys Lys Phe Arg  
115 120 125  
Asp Ala Leu Ala Asn Glu Lys Ala Arg Ile Leu Ala Glu Lys Trp Lys  
130 135 140  
Val Glu Met Glu Gly Arg Lys Ala Ala Lys Val Leu Glu Glu Arg Ile  
145 150 155 160  
His Glu Glu Phe Lys Arg Lys Glu Glu Glu Glu Arg Lys Arg Gly Glu  
165 170 175  
Glu Arg Ile Arg Leu Gln Glu Glu Gln Arg Ala Lys Glu Leu Tyr Trp  
180 185 190  
Thr Leu Lys Gln Ala Gln Leu His Cys Gln Ala Ser Glu Lys Glu Glu  
195 200 205  
Arg Glu Trp Glu Glu Gln Leu Arg Arg Ser Lys Ala Ala Asp Glu Glu  
210 215 220  
Arg Ser Arg Arg Ala Gln Arg Ala Arg Asp Glu Tyr Arg His His Ser  
225 230 235 240  
Leu Arg Ala Ile Gln Lys Gly Thr Val Ala Gly Leu Ser Ser Met Phe  
245 250 255  
Arg Glu Leu Gly Gln Ser His Glu Gln Glu Ala Arg Leu Tyr His His

260                                      265                                      270  
 Leu Pro Asp Pro Gly Leu Pro Gln Pro Leu Ala Leu Pro Val Arg Thr  
 275                                      280                                      285  
 Trp Glu Arg Pro Leu Arg Pro Val Ser Arg Asp Val Ile Val Arg Trp  
 290                                      295                                      300  
 Phe Lys Glu Glu Gln Leu Pro Arg Arg Ala Gly Phe Glu Arg Asn Thr  
 305                                      310                                      315                                      320  
 Lys Phe Ile Ala Pro Trp Phe His Gly Gly Asn Tyr His Cys Phe Arg  
 325                                      330                                      335  
 Arg Arg Val Thr Ser Gly Thr Leu Arg Thr Glu Gly Gln Pro Thr Arg  
 340                                      345                                      350  
 Leu Pro Ser Val Val  
 355

<210> 3291

<211> 158

<212> PRT

<213> Homo sapiens

<400> 3291

Met Gly Glu Ala Trp Phe Pro Glu Val Ala Pro Ser Leu Thr Ser Ser  
 1                                      5                                      10                                      15  
 Leu Gly Trp Glu Trp Gly Phe Leu Trp Leu Cys Val Ala Pro Arg Gly  
 20                                      25                                      30  
 Ala Val Ala Pro Ser Ser Phe Ser Leu Phe Ser Val Gly Arg Val Val  
 35                                      40                                      45  
 Phe Leu Met Ser Pro Asn Ala Ser Thr Trp Ile Phe Gln Leu Lys Met  
 50                                      55                                      60

Leu Tyr Ser Leu Ala Ser Phe Val Pro Leu Cys Pro Phe Gly Ala Ser  
65 70 75 80  
Leu Leu Glu Phe Ala Gly Gly Pro Leu Leu Thr Leu Phe Ala Trp Val  
85 90 95  
Ser Pro Ala Glu Ala Ala Lys Gln Gln Arg Leu Leu Pro Val Leu Ser  
100 105 110  
Ser Arg Ser Phe Asp Pro Val Gly His Leu Ser Asp Ala Ser Gln Ser  
115 120 125  
Ser Pro Val Ser Gly Val Cys Arg Ser Lys Leu Glu Gly Ile Ser Gln  
130 135 140  
Ser Val Tyr Met Gly Ile Arg Asp Pro Leu Glu Glu Ala Asp  
145 150 155

&lt;210&gt; 3292

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3292

Met Glu Met Ile Ala Phe Ala Arg Ile Phe Cys Lys Gly Gln Val Ser  
1 5 10 15  
Thr Ala Thr Phe Leu Glu Ser Cys Gly Val Ala Asp Leu Ile Thr Thr  
20 25 30  
Cys Tyr Gly Gly Arg Asn Arg Arg Val Ala Glu Ala Phe Ala Arg Thr  
35 40 45  
Gly Lys Thr Ile Glu Glu Leu Glu Lys Glu Met Leu Asn Gly Gln Lys  
50 55 60  
Leu Gln Gly Pro Gln Thr Ser Ala Glu Val Tyr Arg Ile Leu Lys Gln

65                      70                      75                      80  
 Lys Gly Leu Leu Asp Lys Phe Pro Leu Phe Thr Ala Val Tyr Gln Ile  
                             85                      90                      95  
 Cys Tyr Glu Ser Arg Pro Val Gln Glu Met Leu Ser Cys Leu Gln Ser  
                             100                      105                      110  
 His Pro Glu His Thr  
                             115

<210> 3293

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3293

Met Trp Ser Lys Gly Trp Ile Val Ile Ser Lys Glu Ile His Cys Leu  
 1                      5                      10                      15  
 Ile His Phe Lys Lys Gly Leu Thr Ser Gln Leu His Gly Met Arg Ser  
                             20                      25                      30  
 Ala Ala Ser Asn Cys Gln Leu Leu Gln Ser Leu Leu Gln Leu Gln Lys  
                             35                      40                      45  
 Asp Thr Val Leu Glu Val Ile Pro Phe Pro Cys Leu Val Thr Glu Val  
                             50                      55                      60  
 Gln Leu Asn Val Ala Ala Lys Val Thr Leu Met Pro Met Gly Ser Lys  
 65                      70                      75                      80  
 Lys Ser Lys Ser Leu Asn Arg Ile Leu Arg Asn Pro Lys Ser Val Phe  
                             85                      90                      95  
 Phe Gln His Met Thr Phe Trp Ser Ser Leu Leu Phe Ser Asn Arg  
                             100                      105                      110

<210> 3294

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3294

Met Gly Cys Ser Pro Leu Ala Cys Ser Ser Thr Pro Leu His Pro Ser

1 5 10 15

Leu Ser Phe Gly Arg Ser Ala Ile Gln Ser Cys His Leu Phe Arg Met

20 25 30

Thr Phe Pro Phe Arg Ala Arg Cys Val Arg Phe Pro Gly Met Phe Pro

35 40 45

Ser Ser Pro Ser Ser Ser Trp Pro Gly Pro Ala Cys His Leu His Ala

50 55 60

Gly Val Cys Asp Cys Leu Val Leu Thr Arg Gly Val Gly Trp Trp Ser

65 70 75 80

Thr Ser Leu Gly Arg Gly Leu Ile Arg Pro Gly Val Ser Arg Phe His

85 90 95

Ala Leu Ser Ile Pro Asp His

100

<210> 3295

<211> 111

<212> PRT

<213> Homo sapiens

&lt;400&gt; 3295

Met Val Tyr Ser Arg His Pro Lys Pro Val Ser Thr Ser His Lys Arg  
 1 5 10 15  
 His Val Ser His Arg Ala Gly Asn Pro Gly Pro Ser Pro Gly Thr Ser  
 20 25 30  
 Gly Pro Ile Ser Ala Pro Asp Leu Pro Cys Ser Leu Ala Trp Asp Leu  
 35 40 45  
 Ser Tyr Ser Trp Ala Val Asp His Val Pro Leu Pro Ala Leu Thr Cys  
 50 55 60  
 Pro Leu Thr Gly Asp Ser Glu Gly Pro His Leu Pro Arg Cys His Ser  
 65 70 75 80  
 Thr Trp His Leu Met Arg Lys Ala Thr Gln Arg Lys Gly Leu Tyr Ser  
 85 90 95  
 Ser Asp Phe Arg Gly Lys Thr Thr Gln Met Lys Gly Thr Thr Ile  
 100 105 110

&lt;210&gt; 3296

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3296

Met Gly Val Ala Arg Met Gly Ser His Gly Ser Val Arg Ala Glu Ala  
 1 5 10 15  
 Arg Phe Glu Leu Arg Pro Thr Pro Arg His Ser Ala Cys Tyr Pro Gly  
 20 25 30  
 Cys Pro Pro Pro Gly Cys His His His Ala Arg Gly Ala Ala Ser Pro  
 35 40 45

Gly Arg Ser Asp His Tyr Phe His Ala Ser Cys Gly Asp Glu Gly Thr  
 50 55 60  
 Glu Ser His Arg Leu Arg Phe Gln Arg Arg Asn Leu Val Ser Glu Asn  
 65 70 75 80  
 Pro Ala Leu Arg Arg Ala Gly Ala Glu Arg Ser Arg His Trp Pro Glu  
 85 90 95  
 Gly Gly Leu Ser Thr Tyr Lys Pro Thr Glu Ala Ser Val Ser Val Val  
 100 105 110  
 Leu Phe Val Val Ser Gln Ala Leu Gly Ser Trp Leu Gly Val Arg Val  
 115 120 125  
 Arg Ser Ser Thr Cys Lys Gln Gly Cys Leu Pro Leu Ser Thr Leu Ala  
 130 135 140

&lt;210&gt; 3297

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3297

Met Thr Leu Ala Ser His Pro Arg Pro Glu Gly Leu His Ser Arg Gln  
 1 5 10 15  
 Trp Ser Gly Ser Gln Asp Ser Gln Met Gly Phe Pro Arg Ala Asp Pro  
 20 25 30  
 Ala Ser Asp Arg Ala Ser Leu Phe Val Ala Arg Thr Arg Arg Ser Asn  
 35 40 45  
 Ser Ser Glu Ala Leu Leu Val Asp Arg Ala Ala Gly Gly Gly Ala Gly  
 50 55 60  
 Ser Pro Pro Ala Pro Leu Ala Pro Ser Ala Ser Gly Pro Pro Val Cys

65	70	75	80
Lys Ser Ser Glu Val Leu Tyr Glu Arg Pro Gln Pro Thr Pro Ala Phe			
	85	90	95
Ser Ser Arg Thr Ala Gly Pro Pro Asp Pro Pro Arg Ala Ala Arg Pro			
	100	105	110
Ser Ser Ala Ala Pro Ala Ser Arg Gly Ala Pro Arg Leu Pro Pro Val			
	115	120	125
Cys Gly Asp Phe Leu Leu Asp Tyr Ser Leu Asp Arg Gly Leu Pro Arg			
	130	135	140
Ser Gly Gly Gly Thr Gly Trp Gly Glu Leu Pro Pro Ala Ala Glu Val			
145	150	155	160
Pro Gly Pro Leu Ser Arg Arg Asp Gly Leu Leu Thr Met Leu Pro Gly			
	165	170	175
Pro Pro Pro Val Tyr Ala Ala Asp Ser Asn Ser Pro Leu Leu Arg Thr			
	180	185	190
Lys Asp Pro His Thr Arg Ala Thr Arg Thr Lys Pro Cys Gly Leu Pro			
	195	200	205
Pro Glu Ala Ala Glu Gly Pro Glu Val His Pro Asn Pro Leu Leu Trp			
	210	215	220
Met Pro Pro Pro Thr Arg Ile Pro Ser Ala Gly Glu Arg Ser Gly His			
225	230	235	240
Lys Asn Leu Ala Leu Glu Gly Leu Arg Asp Trp Tyr Ile Arg Asn Ser			
	245	250	255
Gly Leu Ala Ala Gly Pro Gln Arg Arg Pro Val Leu Pro Ser Val Gly			
	260	265	270
Pro Pro His Pro Pro Phe Leu His Ala Arg Cys Tyr Glu Val Gly Gln			
	275	280	285
Ala Leu Tyr Gly Ala Pro Ser Gln Ala Pro Leu Pro His Ser Arg Ser			
	290	295	300

Phe Thr Ala Pro Pro Val Ser Gly Arg Tyr Gly Gly Cys Phe Tyr

305

310

315

<210> 3298

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3298

Met Ile Val Glu His Leu Ser Glu Pro Lys Ser Leu Gly Glu Cys Gly

1

5

10

15

Asp Phe Leu Glu Gly Gly Cys Arg Leu Pro Glu Ser Pro Pro Asn Gly

20

25

30

Arg Ala Glu Lys Gly Glu Gly Gly Gly Gly Cys Ser Gln Glu Gly Ala

35

40

45

Arg Glu Glu Gln Gly Leu Gly Ala Ser Arg Asn Met Pro Ala Val Gly

50

55

60

Gly Arg Gly Arg Gly Ala Thr Val Asn Gly Phe Pro Ser Glu Val Val

65

70

75

80

Gly Ala Asp Gly Ser Phe Cys Leu Leu Ala Leu Lys Arg Val Phe Cys

85

90

95

Gln Gly His Ser Leu Phe Leu Leu Arg Lys His Pro Pro Asn Ala Asn

100

105

110

Asn Ile Pro Thr Ser Cys

115

<210> 3299

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3299

Met Arg Arg Gly Ala Pro Arg Pro Gly Pro Pro Thr Pro Ala Leu Pro

1 5 10 15

Gly Pro Pro Leu Trp Ala Ser Val Ser Ile Pro Ala Pro Gly Lys Gly

20 25 30

Gly Arg Leu Glu Ser Arg Ser Arg Ala Arg Ser Pro Gly Val Pro Ala

35 40 45

Ala Ala Glu Cys Lys Val Ala Ala Phe Ser Leu Leu Arg Gly Ile Ser

50 55 60

Glu Ile Ser Gln Glu Gly Thr Phe Gly Arg Phe Trp Gly Gln Leu Gly

65 70 75 80

Ser Asn Arg Gly Ser Arg Thr Pro Lys Gly Glu Ser Pro Ala Ser Glu

85 90 95

Asp Gly Glu Glu Gly Gly Ala Leu Ala Lys Gly Ala Leu Pro Tyr Gln

100 105 110

Pro Gly Leu Leu Lys Arg Gly Asp Phe Glu Trp Val Thr Ser Pro Ala

115 120 125

Trp Ala Arg Ser Val Glu Gly Gly Pro Ala Gln Arg Val Asn Arg Leu

130 135 140

Glu Val Cys Asp Gln Gly Gln Pro Ala Val Arg Ala Cys Gly Arg

145 150 155

&lt;210&gt; 3300

&lt;211&gt; 461

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3300

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Met Gly Asp Arg Ser Gly Gln Gln Glu Arg Ser Val Pro His Ser Pro
  1             5             10             15
Gly Ala Pro Val Gly Thr Ser Ala Ala Ala Val Asn Glu Leu Leu His
          20             25             30
Asn Gly Phe His Pro Pro Pro Val Gln Pro Pro His Val Cys Ser Arg
          35             40             45
Gly Pro Val Gly Gly Ser Asp Ala Ala Pro Gln Arg Leu Pro Leu Leu
          50             55             60
Pro Glu Leu Gln Pro Gln Pro Leu Leu Pro Gln His Asp Ser Pro Ala
          65             70             75             80
Lys Lys Cys Arg Leu Arg Arg Arg Met Asp Ser Gly Arg Lys Asn Arg
          85             90             95
Pro Pro Phe Pro Trp Phe Gly Met Asp Ile Gly Gly Thr Leu Val Lys
          100            105            110
Leu Val Tyr Phe Glu Pro Lys Asp Ile Thr Ala Glu Glu Glu Gln Glu
          115            120            125
Glu Val Glu Asn Leu Lys Ser Ile Arg Lys Tyr Leu Thr Ser Asn Thr
          130            135            140
Ala Tyr Gly Lys Thr Gly Ile Arg Asp Val His Leu Glu Leu Lys Asn
          145            150            155            160
Leu Thr Met Cys Gly Arg Lys Gly Asn Leu His Phe Ile Arg Phe Pro
          165            170            175
Ser Cys Ala Met His Arg Phe Ile Gln Met Gly Ser Glu Lys Asn Phe
          180            185            190
Ser Ser Leu His Thr Thr Leu Cys Ala Thr Gly Gly Gly Ala Phe Lys

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195	200	205
Phe Glu Glu Asp Phe Arg Met Ile Ala Asp Leu Gln Leu His Lys Leu		
210	215	220
Asp Glu Leu Asp Cys Leu Ile Gln Gly Leu Leu Tyr Val Asp Ser Val		
225	230	235
Gly Phe Asn Gly Lys Pro Glu Cys Tyr Tyr Phe Glu Asn Pro Thr Asn		
245	250	255
Pro Glu Leu Cys Gln Lys Lys Pro Tyr Cys Leu Asp Asn Pro Tyr Pro		
260	265	270
Met Leu Leu Val Asn Met Gly Ser Gly Val Ser Ile Leu Ala Val Tyr		
275	280	285
Ser Lys Asp Asn Tyr Lys Arg Val Thr Gly Thr Ser Leu Gly Gly Gly		
290	295	300
Thr Phe Leu Gly Leu Cys Cys Leu Leu Thr Gly Cys Glu Thr Phe Glu		
305	310	315
Glu Ala Leu Glu Met Ala Ala Lys Gly Asp Ser Thr Asn Val Asp Lys		
325	330	335
Leu Val Lys Asp Ile Tyr Gly Gly Asp Tyr Glu Arg Phe Gly Leu Gln		
340	345	350
Gly Ser Ala Val Ala Ser Ser Phe Gly Asn Met Met Ser Lys Glu Lys		
355	360	365
Arg Asp Ser Ile Ser Lys Glu Asp Leu Ala Arg Ala Thr Leu Val Thr		
370	375	380
Ile Thr Asn Asn Ile Gly Ser Ile Ala Arg Met Cys Ala Leu Asn Glu		
385	390	395
Asn Ile Asp Arg Val Val Phe Val Gly Asn Phe Leu Arg Ile Asn Met		
405	410	415
Val Ser Met Lys Leu Leu Ala Tyr Ala Met Asp Phe Trp Ser Lys Gly		
420	425	430

Gln Leu Lys Ala Leu Phe Leu Glu His Glu Gly Tyr Phe Gly Ala Val

435

440

445

Gly Ala Leu Leu Glu Leu Phe Lys Met Thr Asp Asp Lys

450

455

460

<210> 3301

<211> 154

<212> PRT

<213> Homo sapiens

<400> 3301

Met Thr Val Leu His Tyr Leu Asp Ser Ala Gln Glu Ala Thr Met Met

1

5

10

15

Tyr Gln Tyr Ser Gln His Leu Asp Asp Val Thr Leu Leu Cys Leu Gly

20

25

30

Pro Val Tyr Ile Val Tyr Glu Thr Tyr Val Trp Val His His Leu Val

35

40

45

Asp Val Thr Leu Leu His Gly Leu Cys Pro Trp Arg Cys Glu Ile Phe

50

55

60

Phe His Ser Ser Pro Ala Ile Ser Leu Leu Cys Leu Phe Cys Leu Gly

65

70

75

80

Leu Ala Lys Lys Arg Ile Ile Val Tyr His Trp Thr Gln Asn Leu Gly

85

90

95

Glu Val Thr Pro Ile Leu Pro Gly Ala His Ile Phe Gly Tyr Cys Asp

100

105

110

Ile Gly Asp Gly Trp Glu Ala His Glu Trp Ala Leu Leu Thr Glu Gly

115

120

125

Leu Val Thr Ser Gln His Ser Leu Pro Arg Lys Cys Asp Tyr Cys Leu

130 135 140  
Pro Phe Ala Pro Cys Leu Gln Gly Arg Leu  
145 150

<210> 3302

<211> 183

<212> PRT

<213> Homo sapiens

<400> 3302

Met	Ala	His	Cys	Ser	Leu	Asn	Leu	Leu	Gly	Ser	Asn	Lys	Pro	Pro	Thr
1				5					10					15	
Leu	Ala	Ser	Gln	Val	Ala	Gly	Thr	Ile	Gly	Thr	His	His	His	Val	Arg
			20					25					30		
Pro	Ile	Phe	Val	Phe	Phe	Lys	Glu	Thr	Gly	Cys	His	Cys	Val	Ala	Gln
		35					40					45			
Ala	Gly	Leu	Gln	Leu	Leu	Gly	Ser	Ser	Asn	Leu	Ser	Ala	Leu	Val	Ser
	50					55					60				
Gln	Thr	Ala	Gly	Ser	Ile	Val	Val	Asn	Gln	Arg	Ala	Gln	Pro	Pro	Ser
65					70					75					80
Leu	Ser	Val	Ser	Val	Phe	Leu	Cys	Ser	Ser	Leu	Ser	Leu	Leu	Phe	Leu
				85					90					95	
Ser	Leu	Pro	Ile	Ser	Leu	Ser	Phe	Leu	Ser	Val	Ser	Ala	Ser	Val	Cys
		100						105					110		
Val	Cys	Phe	Leu	Ser	Leu	Phe	Ser	Val	Cys	Leu	Cys	Leu	Pro	Leu	Pro
		115					120					125			
Val	Ser	Pro	Leu	Val	Cys	Ala	Ser	Leu	Cys	Leu	Ser	Leu	Ala	Leu	Leu
	130					135					140				

Cys Leu Ser Leu Phe Leu Gln Arg Ala Phe Pro His Val Tyr Pro Leu  
 145                      150                      155                      160  
 Val Pro Pro Tyr Ser Val Leu Pro Tyr Pro Gly Ser Ser Tyr Leu Ser  
                          165                      170                      175  
 Ala Phe Leu Glu Pro Gly Asp  
                          180

<210> 3303

<211> 650

<212> PRT

<213> Homo sapiens

<400> 3303

Met Ala Arg Ser Pro Thr Thr His Pro Pro Ala Asn Thr Tyr Leu Pro  
 1                      5                      10                      15  
 Gln Tyr Gly Gly Tyr Gly Ala Gly Gln Ser Val Phe Ala Pro Thr Lys  
                          20                      25                      30  
 Pro Phe Thr Gly Gln Asp Cys Ala Asn Ser Lys Asp Cys Ser Phe Ala  
                          35                      40                      45  
 Tyr Gly Ser Gly Asn Ser Leu Pro Ala Ser Pro Ser Ser Ala His Ser  
                          50                      55                      60  
 Ala Gly Tyr Ala Pro Pro Pro Thr Gly Gly Pro Cys Leu Pro Pro Ser  
 65                      70                      75                      80  
 Lys Ala Ser Phe Phe Ser Ser Ser Glu Gly Ala Pro Phe Ser Gly Ser  
                          85                      90                      95  
 Ala Pro Thr Pro Leu Arg Cys Asp Ser Arg Ala Ser Thr Val Ser Pro  
                          100                      105                      110  
 Gly Gly Tyr Met Val Pro Lys Gly Thr Thr Ala Ser Ala Thr Ser Ala

115 120 125  
Ala Ser Ala Ala Ser Ser Ser Ser Ser Ser Phe Gln Pro Ser Pro Glu  
130 135 140  
Asn Cys Arg Gln Phe Ala Gly Ala Ser Gln Trp Pro Phe Arg Gln Gly  
145 150 155 160  
Tyr Gly Gly Leu Asp Trp Ala Ser Glu Ala Phe Ser Gln Leu Tyr Asn  
165 170 175  
Pro Ser Phe Asp Cys His Val Ser Glu Pro Asn Val Ile Leu Asp Ile  
180 185 190  
Ser Asn Tyr Thr Pro Gln Lys Val Lys Gln Gln Thr Ala Val Ser Glu  
195 200 205  
Thr Phe Ser Glu Ser Ser Ser Asp Ser Thr Gln Phe Asn Gln Pro Val  
210 215 220  
Gly Gly Gly Gly Phe Arg Arg Ala Asn Ser Glu Ala Ser Ser Ser Glu  
225 230 235 240  
Gly Gln Ser Ser Leu Ser Ser Leu Glu Lys Leu Met Met Asp Trp Asn  
245 250 255  
Glu Ala Ser Ser Ala Pro Gly Tyr Asn Trp Asn Gln Ser Val Leu Phe  
260 265 270  
Gln Ser Ser Ser Lys Pro Gly Arg Gly Arg Arg Lys Lys Val Asp Leu  
275 280 285  
Phe Glu Ala Ser His Leu Gly Phe Pro Thr Ser Ala Ser Ala Ala Ala  
290 295 300  
Ser Gly Tyr Pro Ser Lys Arg Ser Thr Gly Pro Arg Gln Pro Arg Gly  
305 310 315 320  
Gly Arg Gly Gly Gly Ala Cys Ser Ala Lys Lys Glu Arg Gly Gly Ala  
325 330 335  
Ala Ala Lys Ala Lys Phe Ile Pro Lys Pro Gln Pro Val Asn Pro Leu  
340 345 350

Phe Gln Asp Ser Pro Asp Leu Gly Leu Asp Tyr Tyr Ser Gly Asp Ser  
355 360 365  
Ser Met Ser Pro Leu Pro Ser Gln Ser Arg Ala Phe Gly Val Gly Glu  
370 375 380  
Arg Asp Pro Cys Asp Phe Ile Gly Pro Tyr Ser Met Asn Pro Ser Thr  
385 390 395 400  
Pro Ser Asp Gly Thr Phe Gly Gln Gly Phe His Cys Asp Ser Pro Ser  
405 410 415  
Leu Gly Ala Pro Glu Leu Asp Gly Lys His Phe Pro Pro Leu Ala His  
420 425 430  
Pro Pro Thr Val Phe Asp Ala Gly Leu Gln Lys Ala Tyr Ser Pro Thr  
435 440 445  
Cys Ser Pro Thr Leu Gly Phe Lys Glu Glu Leu Arg Pro Pro Pro Thr  
450 455 460  
Lys Leu Ala Ala Cys Glu Pro Leu Lys His Gly Leu Gln Gly Ala Ser  
465 470 475 480  
Leu Gly His Ala Ala Ala Ala Gln Ala His Leu Ser Cys Arg Asp Leu  
485 490 495  
Pro Leu Gly Gln Pro His Tyr Asp Ser Pro Ser Cys Lys Gly Thr Ala  
500 505 510  
Tyr Trp Tyr Pro Pro Gly Ser Ala Ala Arg Ser Pro Pro Tyr Glu Gly  
515 520 525  
Lys Val Gly Thr Gly Leu Leu Ala Asp Phe Leu Gly Arg Thr Glu Ala  
530 535 540  
Ala Cys Leu Ser Ala Pro His Leu Ala Ser Pro Pro Ala Thr Pro Lys  
545 550 555 560  
Ala Asp Lys Glu Pro Leu Glu Met Ala Arg Pro Pro Gly Pro Pro Arg  
565 570 575  
Gly Pro Ala Ala Ala Ala Ala Gly Tyr Gly Cys Pro Leu Leu Ser Asp

580                      585                      590  
 Leu Thr Leu Ser Pro Val Pro Arg Asp Ser Leu Leu Pro Leu Gln Asp  
 595                      600                      605  
 Thr Ala Tyr Arg Tyr Pro Gly Phe Met Pro Gln Ala His Pro Gly Leu  
 610                      615                      620  
 Gly Gly Gly Pro Lys Ser Gly Phe Leu Gly Pro Met Ala Glu Pro His  
 625                      630                      635                      640  
 Pro Glu Asp Thr Phe Thr Val Thr Ser Leu  
 645                      650

<210> 3304

<211> 893

<212> PRT

<213> Homo sapiens

<400> 3304

Met Gly Arg Met Gly Lys Gly Cys Pro Ala Ser Gly Pro Arg Ser Trp  
 1                      5                      10                      15  
 Leu Leu Ser Asp Glu Leu Val Gln Gly Ser Arg Ala Gly Val Ser Ala  
 20                      25                      30  
 Ser Phe Pro Val Gly Phe Arg Glu Gly Gly Gly Gly Gly Asp Phe Arg  
 35                      40                      45  
 Arg Gly Asp Val Gly Leu Gln Asp Gly Gly Val Arg Val Arg Val Ile  
 50                      55                      60  
 Ile Phe Ala Phe Ser Leu His Ser Leu Leu Ser Arg Phe Leu Pro Gly  
 65                      70                      75                      80  
 Gly Asp Ala Ser Leu Met Glu Leu Glu Lys Arg Lys Glu Asn Arg Phe  
 85                      90                      95

Val Glu Arg Gln Ser Ile Val Pro Leu Arg Leu Ile Tyr Arg Ser Gly  
100 105 110  
Gly Glu Asp Glu Ser Arg His Asp Ala Leu Asp Thr Arg Val Arg Gly  
115 120 125  
Asp Leu Gly Gly Arg Gln Leu Thr His Val Asp Gln Ala Ser Phe Gln  
130 135 140  
Val Asp Ala Phe Gly Thr Ser Phe Ile Leu Asp Val Val Leu Asn His  
145 150 155 160  
Asp Leu Leu Ser Ser Glu Tyr Ile Glu Arg His Ile Glu His Gly Gly  
165 170 175  
Lys Thr Val Glu Val Lys Gly Gly Glu His Cys Tyr Tyr Gln Gly His  
180 185 190  
Ile Arg Gly Asn Pro Asp Ser Phe Val Ala Leu Ser Thr Cys His Gly  
195 200 205  
Leu His Gly Met Phe Tyr Asp Gly Asn His Thr Tyr Leu Ile Glu Pro  
210 215 220  
Glu Glu Asn Asp Thr Thr Gln Glu Asp Phe His Phe His Ser Val Tyr  
225 230 235 240  
Lys Ser Arg Leu Phe Glu Phe Ser Leu Asp Asp Leu Pro Ser Glu Phe  
245 250 255  
Gln Gln Val Asn Ile Thr Pro Ser Lys Phe Ile Leu Lys Pro Arg Pro  
260 265 270  
Lys Arg Ser Lys Arg Gln Leu Arg Arg Tyr Pro Arg Asn Val Glu Glu  
275 280 285  
Glu Thr Lys Tyr Ile Glu Leu Met Ile Val Asn Asp His Leu Met Phe  
290 295 300  
Lys Lys His Arg Leu Ser Val Val His Thr Asn Thr Tyr Ala Lys Ser  
305 310 315 320  
Val Val Asn Met Ala Asp Leu Ile Tyr Lys Asp Gln Leu Lys Thr Arg

325	330	335
Ile Val Leu Val Ala Met Glu Thr Trp Ala Thr Asp Asn Lys Phe Ala		
340	345	350
Ile Ser Glu Asn Pro Leu Ile Thr Leu Arg Glu Phe Met Lys Tyr Arg		
355	360	365
Arg Asp Phe Ile Lys Glu Lys Ser Asp Ala Val His Leu Phe Ser Gly		
370	375	380
Ser Gln Phe Glu Ser Ser Arg Ser Gly Ala Ala Tyr Ile Gly Gly Ile		
385	390	395
Cys Ser Leu Leu Lys Gly Gly Gly Val Asn Glu Phe Gly Lys Thr Asp		
405	410	415
Leu Met Ala Val Thr Leu Ala Gln Ser Leu Ala His Asn Ile Gly Ile		
420	425	430
Ile Ser Asp Lys Arg Lys Leu Ala Ser Gly Glu Cys Lys Cys Glu Asp		
435	440	445
Thr Trp Ser Gly Cys Ile Met Gly Asp Thr Gly Tyr Tyr Leu Pro Lys		
450	455	460
Lys Phe Thr Gln Cys Asn Ile Glu Glu Tyr His Asp Phe Leu Asn Ser		
465	470	475
Gly Gly Gly Ala Cys Leu Phe Asn Lys Pro Ser Lys Leu Leu Asp Pro		
485	490	495
Pro Glu Cys Gly Asn Gly Phe Ile Glu Thr Gly Glu Glu Cys Asp Cys		
500	505	510
Gly Thr Pro Ala Glu Cys Val Leu Glu Gly Ala Glu Cys Cys Lys Lys		
515	520	525
Cys Thr Leu Thr Gln Asp Ser Gln Cys Ser Asp Gly Leu Cys Cys Lys		
530	535	540
Lys Cys Lys Phe Gln Pro Met Gly Thr Val Cys Arg Glu Ala Val Asn		
545	550	555
		560

Asp Cys Asp Ile Arg Glu Thr Cys Ser Gly Asn Ser Ser Gln Cys Ala			
	565	570	575
Pro Asn Ile His Lys Met Asp Gly Tyr Ser Cys Asp Gly Val Gln Gly			
	580	585	590
Ile Cys Phe Gly Gly Arg Cys Lys Thr Arg Asp Arg Gln Cys Lys Tyr			
	595	600	605
Ile Trp Gly Gln Lys Val Thr Ala Ser Asp Lys Tyr Cys Tyr Glu Lys			
	610	615	620
Leu Asn Ile Glu Gly Thr Glu Lys Gly Asn Cys Gly Lys Asp Lys Asp			
	625	630	635
Thr Trp Ile Gln Cys Asn Lys Arg Asp Val Leu Cys Gly Tyr Leu Leu			
	645	650	655
Cys Thr Asn Ile Gly Asn Ile Pro Arg Leu Gly Glu Leu Asp Gly Glu			
	660	665	670
Ile Thr Ser Thr Leu Val Val Gln Gln Gly Arg Thr Leu Asn Cys Ser			
	675	680	685
Gly Gly His Val Lys Leu Glu Glu Asp Val Asp Leu Gly Tyr Val Glu			
	690	695	700
Asp Gly Thr Pro Cys Gly Pro Gln Met Met Cys Leu Glu His Arg Cys			
	705	710	715
Leu Pro Val Ala Ser Phe Asn Phe Ser Thr Cys Leu Ser Ser Lys Glu			
	725	730	735
Gly Thr Ile Cys Ser Gly Asn Gly Val Cys Ser Asn Glu Leu Lys Cys			
	740	745	750
Val Cys Asn Arg His Trp Ile Gly Ser Asp Cys Asn Thr Tyr Phe Pro			
	755	760	765
His Asn Asp Asp Ala Lys Thr Gly Ile Thr Leu Ser Gly Asn Gly Val			
	770	775	780
Ala Gly Thr Asn Ile Ile Ile Gly Ile Ile Ala Gly Thr Ile Leu Val			

785                      790                      795                      800  
 Leu Ala Leu Ile Leu Gly Ile Thr Ala Trp Gly Tyr Lys Asn Tyr Arg  
                             805                      810                      815  
 Glu Gln Arg Gln Leu Pro Gln Gly Asp Tyr Val Lys Lys Pro Gly Gly  
                             820                      825                      830  
 Gly Asp Ser Phe Tyr Ser Asp Ile Pro Pro Gly Val Ser Thr Asn Ser  
                             835                      840                      845  
 Ala Ser Ser Ser Lys Lys Arg Ser Asn Gly Leu Ser His Ser Trp Ser  
                             850                      855                      860  
 Glu Arg Ile Pro Asp Thr Lys His Ile Ser Asp Ile Cys Glu Asn Gly  
 865                      870                      875                      880  
 Arg Pro Arg Ser Asn Ser Trp Gln Gly Asn Leu Gly Gly  
                             885                      890

<210> 3305

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3305

Met Phe Leu Gln Pro Ser Thr Pro Ser Ser Phe Ala Ser His Pro Ser  
     1                      5                      10                      15  
 Leu Leu Leu His Leu Phe Ser Tyr Ile His Tyr Gly Phe Pro Phe Phe  
                             20                      25                      30  
 Gln Lys Ser Thr Ser Ser Leu Thr Phe Gly Asp Gly Gly Arg Val Pro  
                             35                      40                      45  
 Gln Ile Val Pro Asp Leu Ala Ser Glu Ser Pro Phe Glu Cys Leu Leu  
                             50                      55                      60

Tyr Pro Ser Ile Phe Gly Ser Thr Pro Leu Ile Ser Asp Leu Thr Arg  
 65                      70                      75                      80  
 Cys Ser Gly Pro Leu Gly Thr Ser His Gly Ser Val Phe Val Pro Gly  
                          85                      90                      95  
 Ala Leu Val Pro Gly Thr Arg Cys Ala Tyr Cys Ser Trp Gly Val Phe  
                          100                      105                      110  
 Ala Ser Cys Pro Ile Asp Asp  
                          115

<210> 3306

<211> 208

<212> PRT

<213> Homo sapiens

<400> 3306

Met Ser His Pro Ala Trp Thr Pro Cys Arg Ala Ser Pro Lys Arg Gln  
 1                      5                      10                      15  
 Trp Thr Gln Ala Gly Ser Ser Thr Cys Thr Pro Ala Leu Arg His Ala  
                          20                      25                      30  
 Phe Ser Leu Asp Val Ala Ser Ala Trp Val Leu Pro Leu Arg Thr Ser  
                          35                      40                      45  
 Arg Gly Ala Gly Gly Ala Ala Cys Cys His Pro His Trp Gly His Lys  
                          50                      55                      60  
 Thr Ser Ala Val Glu Gly Ala Gln Ser Gln Leu His Pro Gly Pro Ser  
 65                      70                      75                      80  
 Thr Ala Pro Arg Cys Gln Val Leu Leu Pro His Ser Pro Gly Pro Trp  
                          85                      90                      95  
 Pro Ala Gly Ala Gly Ala Thr Pro Ala Trp Gly Pro Ala Glu Gly Gly

100 105 110  
Trp Ala Ser Ser Gln Asp Pro Gln His Leu Leu Leu Glu Arg Gly Gly  
115 120 125  
Arg Ala Ser Asp Pro Val Pro Ala Arg Trp Glu Gln Asp Thr Asp Gly  
130 135 140  
Phe Val Leu Met Ala Asn Ala Ser Glu Met Asp Arg Gln Ser His Pro  
145 150 155 160  
Val Ala Phe Thr Val Thr Ile Leu Pro Val Asn Gly Gln Pro Pro Thr  
165 170 175  
Ser Tyr Lys Leu Arg Pro Ala Gly Ala Leu Asp Gly Gly Ile His Phe  
180 185 190  
Gly Leu Ser Asp Gly Glu His Thr Ser Ser Arg His Leu Ser Ser Glu  
195 200 205

&lt;210&gt; 3307

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3307

Met Leu Thr Leu His Gly Ala Ser Ser Arg Phe Pro Gly Lys Ser Gly  
1 5 10 15  
Ser Arg Arg Ser Ser Leu Ile Ser Gln Pro Leu Trp Arg Arg Glu Tyr  
20 25 30  
Gln Lys Gln Asp Glu Ser Gln Val Lys Ser Leu Ser Leu Gly Ser Pro  
35 40 45  
Lys Gly Gln Val Leu Thr Ser Gln Arg Pro Gly Pro Ala Gly Pro His  
50 55 60

Gly Ser Thr Thr Pro Ser Arg Cys Pro Arg Pro Phe Val Ser His Pro  
 65 70 75 80  
 Ala Phe Ser Arg Ile Ser Lys Asp Ala Arg Leu Asp Pro Gln Ser Trp  
 85 90 95  
 Lys Thr Ala Val Pro Gly Ser His Gln Asn Gly Glu Ala Ser Ser Ser  
 100 105 110  
 His

<210> 3308

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3308

Met Lys Leu Arg Cys Tyr Leu Lys Leu Thr Ala Pro Asn Arg Pro Asp  
 1 5 10 15  
 Ser Gln Cys Pro Pro Arg Thr Ser Val Pro Ala Asp Leu Ala Ser Gly  
 20 25 30  
 Val Thr Ser Gly Glu Pro Phe Lys Ser Pro His Leu Ala Ser His Ser  
 35 40 45  
 Trp Pro Thr Leu Cys Ser Arg Ala Asn Gln Val Ala Asn Asp Lys Arg  
 50 55 60  
 Leu Ser Trp Pro Asn Ser Ser Leu Ala Trp Ile Thr Pro Ile Arg Cys  
 65 70 75 80  
 Gln Arg Cys Leu Leu Arg Trp Lys Asn Gln Ser Gly Ser Gly Val Arg  
 85 90 95  
 His Gln Gly Lys Gln Ala Asp Leu Glu Glu Ile Lys Tyr Ala Cys Ser

100 105 110  
 Leu Pro Ile Gln Val  
 115

<210> 3309

<211> 131

<212> PRT

<213> Homo sapiens

<400> 3309

Met Val Pro Arg Pro Leu Gln Thr Arg Val Pro Gly Cys Phe Ser Lys  
 1 5 10 15  
 Gly Cys Glu Gly Thr Gly Gln Arg Gly Trp Val Trp Gly Arg Glu His  
 20 25 30  
 Ile Asp Val Gly Ala His Ser Val Gly Thr Gly Arg Gln Leu Leu Cys  
 35 40 45  
 Gln Ala Phe Ile Phe Pro Ile Leu Tyr Met Arg Lys Leu Gly Ser Gly  
 50 55 60  
 Gly Glu Gly Cys Leu Ala Asp Val Trp Pro Gly Gly Gly Gly Pro Gly  
 65 70 75 80  
 Leu Glu Pro Gln Ala Pro Pro Ser Ser Cys Lys Ser Pro Ala Gln Arg  
 85 90 95  
 Arg Gly Gly Ser Trp Gly Leu Ser Ser Leu Gln Asp Arg Val His Leu  
 100 105 110  
 Ser Ser Ser Ile Ile His Ser Phe Ile His Ser Phe Asn Lys Cys Leu  
 115 120 125  
 Ala Ser Gly  
 130

&lt;210&gt; 3310

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3310

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Met Leu Ala Glu Trp Gly Ala Cys Leu Leu Leu Ala Val Ala Leu Leu
  1             5             10             15
Gly Pro Gly Leu Gln Ala Gln Ala Met Glu Gly Val Lys Cys Gly Gly
             20             25             30
Val Leu Ser Ala Pro Ser Gly Asn Phe Ser Ser Pro Asn Phe Pro Arg
             35             40             45
Leu Tyr Pro Tyr Asn Thr Glu Cys Ser Trp Leu Ile Val Val Ala Glu
             50             55             60
Gly Ser Ser Val Leu Leu Thr Phe His Ala Phe Asp Leu Glu Tyr His
             65             70             75             80
Asp Thr Cys Ser Phe Asp Phe Leu Glu Ile Tyr Asn Gly Ala Ser Pro
             85             90             95
Asp Lys Gly Asn Leu Leu Gly Arg Phe Cys Gly Lys Val Pro Pro Pro
             100            105            110
Pro Phe Thr Ser Ser Trp His Val Met Ser Val Ile Phe His Ser Asp
             115            120            125
Lys His Val Ala Ser His Gly Phe Ser Ala Gly Tyr Gln Lys Gly Gln
             130            135            140
Arg Gly Ala Leu Gly Thr Cys Cys Ser Gly Ser His Leu
             145            150            155

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&lt;210&gt; 3311

&lt;211&gt; 630

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3311

Met Lys Ile Gly Gln Gly Lys Tyr Glu Pro Gly Phe Phe Pro Lys Leu

1 5 10 15

Gln Ser Asp Val Leu Ser Thr Gly Pro Ala Ser Asn Lys Trp Thr Lys

20 25 30

Arg Asn Ala Pro Ala Gln Trp Arg Arg Lys Asp Arg Gln Lys Gln His

35 40 45

Thr Glu His Leu Arg Leu Asp Asn Asp Gln Arg Glu Lys Tyr Ile Gln

50 55 60

Glu Ala Arg Thr Met Gly Ser Thr Ile Arg Gln Pro Lys Leu Ser Asn

65 70 75 80

Leu Ser Pro Ser Val Ile Ala Gln Thr Asn Trp Lys Phe Val Glu Gly

85 90 95

Leu Leu Lys Glu Cys Arg Asn Lys Thr Lys Arg Met Leu Val Glu Lys

100 105 110

Met Gly Arg Glu Ala Val Glu Leu Gly His Gly Glu Val Asn Ile Thr

115 120 125

Gly Val Glu Glu Asn Thr Leu Ile Ala Ser Leu Cys Asp Leu Leu Glu

130 135 140

Arg Ile Trp Ser His Gly Leu Gln Val Lys Gln Gly Lys Ser Ala Leu

145 150 155 160

Trp Ser His Leu Leu His Tyr Gln Asp Asn Arg Gln Arg Lys Leu Thr

165 170 175

Ser Gly Ser Leu Ser Thr Ser Gly Ile Leu Leu Asp Ser Glu Arg Arg  
180 185 190  
Lys Ser Asp Ala Ser Ser Leu Met Pro Pro Leu Arg Ile Ser Leu Ile  
195 200 205  
Gln Asp Met Arg His Ile Gln Asn Ile Gly Glu Ile Lys Thr Asp Val  
210 215 220  
Gly Lys Ala Arg Ala Trp Val Arg Leu Ser Met Glu Lys Lys Leu Leu  
225 230 235 240  
Ser Arg His Leu Lys Gln Leu Leu Ser Asp His Glu Leu Thr Lys Lys  
245 250 255  
Leu Tyr Lys Arg Tyr Ala Phe Leu Arg Cys Asp Asp Glu Lys Glu Gln  
260 265 270  
Phe Leu Tyr His Leu Leu Ser Phe Asn Ala Val Asp Tyr Phe Cys Phe  
275 280 285  
Thr Asn Val Phe Thr Thr Ile Leu Ile Pro Tyr His Ile Leu Ile Val  
290 295 300  
Pro Ser Lys Lys Leu Gly Gly Ser Met Phe Thr Ala Asn Pro Trp Ile  
305 310 315 320  
Cys Ile Ser Gly Glu Leu Gly Glu Thr Gln Ile Met Gln Ile Pro Arg  
325 330 335  
Asn Val Leu Glu Met Thr Phe Glu Cys Gln Asn Leu Gly Lys Leu Thr  
340 345 350  
Thr Val Gln Ile Gly His Asp Asn Ser Gly Leu Tyr Ala Lys Trp Leu  
355 360 365  
Val Glu Tyr Val Met Val Arg Asn Glu Ile Thr Gly His Thr Tyr Lys  
370 375 380  
Phe Pro Cys Gly Arg Trp Leu Gly Lys Gly Met Asp Asp Gly Ser Leu  
385 390 395 400  
Glu Arg Ile Leu Val Gly Glu Leu Leu Thr Ser Gln Pro Glu Val Asp

405	410	415
Glu Arg Pro Cys Arg Thr Pro Pro Leu Gln Gln Ser Pro Ser Val Ile		
420	425	430
Arg Arg Leu Val Thr Ile Ser Pro Asn Asn Lys Pro Lys Leu Asn Thr		
435	440	445
Gly Gln Ile Gln Glu Ser Ile Gly Glu Ala Val Asn Gly Ile Val Lys		
450	455	460
His Phe His Lys Pro Glu Lys Glu Arg Gly Ser Leu Thr Leu Leu Leu		
465	470	475
Cys Gly Glu Cys Gly Leu Val Ser Ala Leu Glu Gln Ala Phe Gln His		
485	490	495
Gly Phe Lys Ser Pro Arg Leu Phe Lys Asn Val Phe Ile Trp Asp Phe		
500	505	510
Leu Glu Lys Ala Gln Thr Tyr Tyr Glu Thr Leu Glu Lys Asn Glu Val		
515	520	525
Val Pro Glu Glu Asn Trp His Thr Arg Ala Arg Asn Phe Cys Arg Phe		
530	535	540
Val Thr Ala Ile Asn Asn Thr Pro Arg Asn Ile Gly Lys Asp Gly Lys		
545	550	555
Phe Gln Met Leu Val Cys Leu Gly Ala Arg Asp His Leu Leu His His		
565	570	575
Trp Ile Ala Leu Leu Ala Asp Cys Pro Ile Thr Ala His Met Tyr Glu		
580	585	590
Asp Val Ala Leu Ile Lys Asp His Thr Leu Val Asn Ser Leu Ile Arg		
595	600	605
Val Leu Gln Thr Leu Gln Glu Phe Asn Ile Thr Leu Glu Thr Ser Leu		
610	615	620
Val Lys Gly Ile Asp Ile		
625	630	

<210> 3312

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3312

Met Ser Arg Leu Ala Gly Gly Gln Ala Pro Tyr Leu Trp Glu Gln Gly

1 5 10 15

Phe Ala Gln Pro Pro Trp Asp Ala Leu Gly Leu Leu Thr Ala Gln Asp

20 25 30

Pro Ser Arg Glu Ala Ala Trp Ile Gly Gly Ser Gly Leu Thr Ala Gly

35 40 45

Leu Gly Leu Glu Pro Ser Pro Cys Pro Ala Gln Ala Pro Ala Glu Pro

50 55 60

Gly Ala Leu Ala Glu Ala Gly Leu Gly Ser Gly Ala Ala Arg Arg Pro

65 70 75 80

Pro Ile Ser His Ser Leu Gly Val Leu Arg Val Thr Gln Arg Thr Val

85 90 95

Lys Cys Trp Ile

100

<210> 3313

<211> 635

<212> PRT

<213> Homo sapiens

&lt;400&gt; 3313

Met Ser Thr Cys Cys Trp Cys Thr Pro Gly Gly Ala Ser Thr Ile Asp

1 5 10 15

Phe Leu Lys Arg Tyr Ala Ser Asn Thr Pro Ser Gly Glu Phe Gln Thr

20 25 30

Ala Asp Glu Asp Leu Cys Tyr Cys Leu Glu Cys Val Ala Glu Tyr His

35 40 45

Lys Ala Arg Asp Glu Leu Pro Phe Leu His Glu Val Leu Trp Glu Leu

50 55 60

Glu Thr Leu Arg Leu Ile Asn His Phe Glu Lys Ser Met Lys Ala Glu

65 70 75 80

Ile Gly Asp Asp Asp Glu Leu Tyr Ile Val Asp Asn Asn Gly Glu Met

85 90 95

Pro Leu Phe Asp Ile Thr Gly Gln Asp Phe Glu Asn Lys Leu Arg Val

100 105 110

Pro Leu Leu Glu Ile Leu Lys Tyr Pro Tyr Leu Leu Leu His Glu Arg

115 120 125

Val Asn Glu Leu Cys Val Glu Ala Leu Cys Arg Met Glu Gln Ala Asn

130 135 140

Cys Ser Phe Gln Val Phe Asp Lys His Pro Gly Ile Tyr Leu Phe Leu

145 150 155 160

Val His Pro Asn Glu Met Val Arg Arg Trp Ala Ile Leu Thr Ala Arg

165 170 175

Asn Leu Gly Lys Val Asp Arg Asp Asp Tyr Tyr Asp Leu Gln Glu Val

180 185 190

Leu Leu Cys Leu Phe Lys Val Ile Glu Leu Gly Leu Leu Glu Ser Pro

195 200 205

Asp Ile Tyr Thr Ser Ser Val Leu Glu Lys Gly Lys Leu Ile Leu Leu

210 215 220

出証特 2 0 0 4 - 3 0 5 9 6 6 0

450 455 460  
Val Ile Glu Leu His Arg Asn Lys Lys Cys Leu His Leu Leu Trp Val  
465 470 475 480  
Ser Ser Gln Gln Trp Val Glu Ala Val Val Lys Cys Ala Lys Leu Pro  
485 490 495  
Thr Thr Ala Phe Thr Arg Ser Ser Glu Lys Ser Ser Gly Asn Cys Ser  
500 505 510  
Lys Gly Thr Ala Met Ile Ser Ser Leu Ser Leu His Ser Met Pro Ser  
515 520 525  
Asn Ser Val Gln Leu Ala Tyr Val Gln Leu Ile Arg Ser Leu Leu Lys  
530 535 540  
Glu Gly Tyr Gln Leu Gly Gln Gln Ser Leu Cys Lys Arg Phe Trp Asp  
545 550 555 560  
Lys Leu Asn Leu Phe Leu Arg Gly Asn Leu Ser Leu Gly Trp Gln Leu  
565 570 575  
Thr Ser Gln Glu Thr His Glu Leu Gln Ser Cys Leu Lys Gln Ile Ile  
580 585 590  
Arg Asn Ile Lys Phe Lys Ala Pro Pro Cys Asn Thr Phe Val Asp Leu  
595 600 605  
Thr Ser Ala Cys Lys Ile Ser Pro Ala Ser Tyr Asn Lys Glu Glu Ser  
610 615 620  
Ser Leu Ser Ser Phe Asn Ile Ser Tyr Phe Lys  
625 630 635

&lt;210&gt; 3314

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3314

Met Gln Gly Lys Cys Phe Ser Arg Thr Ser Leu Leu Ser Lys Gly Thr  
 1 5 10 15  
 Gln Gln Ser Gly Cys Thr Leu Cys Asp Leu Pro Ser Gln His Val Pro  
 20 25 30  
 Pro Leu Ser Pro Arg Arg Glu Arg Gln Glu Arg Val Phe Thr Val Ser  
 35 40 45  
 Val Ser Leu Ser His Gln Ala Gly Val Gln Trp Pro Asp Leu Gly Ser  
 50 55 60  
 Leu His Pro Leu Thr Pro Trp Phe Lys Gln Phe Ser Cys Leu Ser Leu  
 65 70 75 80  
 Pro Arg Ser Trp Asp Ser Arg His Ala Pro Pro Leu Pro Ala Asn Phe  
 85 90 95  
 Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp Ser  
 100 105 110  
 Leu Ser

&lt;210&gt; 3315

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3315

Met Val Leu Asp Lys Arg Ala Gly Lys Lys Arg Ala Ala Arg Gly Gly  
 1 5 10 15  
 Phe Cys Pro Arg Arg Pro Gln Ala Gly Gly Pro His Gly Leu Cys Pro

20	25	30	
Asp Val Leu Leu Leu His Pro Ala Ala Pro Thr Thr Glu Thr Ala Pro			
35	40	45	
Gly Glu Gly Thr Thr Leu Ser Thr Gly Gln Pro Val Ser Pro Gly Arg			
50	55	60	
Leu Leu Ala His His Ser Trp Gly Pro Glu Glu Ala Pro Ala Gly Gly			
65	70	75	80
Gly Ser Gly Pro Gly Leu Ser Leu Ser Leu His Thr Asp Trp Ser Pro			
85	90	95	
Ala Leu Ser Pro Thr Gly Thr Leu Arg Gly Asn Phe Ser Lys Val Leu			
100	105	110	
Trp Gly Gln Arg Glu Val Val Glu Pro Ala Arg Leu Trp Glu Ala Pro			
115	120	125	
Glu Lys Leu Pro Leu Pro Thr Ser Val Leu Ala Gly Phe Gly Pro Trp			
130	135	140	
Ala Gly Pro Pro Gln Ala Pro Lys Gly Lys Val Val Gln Gly Lys Ala			
145	150	155	160
Leu Glu Ala Ala Gly Ile Arg Val Gly His Thr Glu Gly Tyr Gln Val			
165	170	175	
Leu Trp Gly Pro Trp Gly Pro Ala Leu Glu Ala Asp Arg Ser Thr Gly			
180	185	190	
Leu Arg Met Ser Cys Cys Pro Arg Thr Trp Trp Ser Gly Pro Gly Arg			
195	200	205	
Ala Ala Pro Pro Pro Pro Ile Pro His Leu Val Ile Thr			
210	215	220	

&lt;210&gt; 3316

&lt;211&gt; 256

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3316

Met	Gly	Cys	Ala	Arg	Arg	His	Ala	Gly	Pro	Arg	Gly	Ser	Pro	Val	Lys
1				5					10					15	
Gly	Ser	Gly	Gly	Leu	Asp	Ser	Leu	Trp	Ala	Trp	Gly	Gly	Val	Val	Ser
				20					25					30	
Leu	Cys	Trp	Leu	Ser	Tyr	Arg	Trp	Trp	Pro	Val	Ser	Pro	Gly	Ser	Gly
				35				40						45	
Cys	Ser	His	Val	Pro	Ala	Pro	Thr	Leu	Pro	Ala	Arg	Asp	Arg	Pro	His
				50				55						60	
Gln	Asp	Pro	Gly	Ala	Ala	Pro	Ala	Ser	Ala	Arg	Leu	Ser	Pro	Arg	Ser
				65				70						75	
Gln	Val	Arg	Pro	Gln	Pro	Leu	Arg	His	Ala	Ser	Gly	Ser	Ser	Cys	Cys
				85				90						95	
Thr	Cys	Ser	Ser	Pro	Cys	Ala	Ser	Thr	Leu	Leu	Ser	Gly	Phe	Leu	Pro
				100				105						110	
Leu	Ala	Thr	Gly	Arg	Val	Cys	Val	Lys	Pro	Gln	Gly	Leu	Gln	Lys	Leu
				115				120						125	
Glu	Val	Pro	Leu	Ser	Gly	Arg	Ile	Met	His	Cys	Thr	Arg	Gly	Ile	Lys
				130				135						140	
Gly	Gly	Asp	Arg	Lys	Asn	Tyr	Gly	Cys	Cys	Asp	Thr	Ser	Pro	Thr	Ala
				145				150						155	
Pro	Arg	Leu	Ala	Ala	Thr	Ala	Thr	Arg	Arg	Asp	Phe	Ser	Val	Ala	Ser
				165				170						175	
Arg	Gly	Val	Gly	Gln	Arg	Trp	Ser	Leu	Val	Thr	Phe	Ser	Leu	Gly	Pro
				180				185						190	
Ala	Pro	Gly	Leu	Ser	Ser	Leu	Gly	Asn	Ser	Thr	Ser	Leu	Ser	Thr	Pro

195	200	205
Leu Glu Gly Leu Thr Met Arg Gly Ala Gln Thr Gly Gly Ile Thr Thr		
210	215	220
Trp Phe Gly Leu Tyr His Ser Pro Arg Asp Lys Ala Arg Gln Thr Pro		
225	230	235
Leu His Ile Arg Ser Glu Phe Glu Leu Trp Leu His Asp Thr Asp Thr		
245	250	255

&lt;210&gt; 3317

&lt;211&gt; 639

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3317

Met Gly Pro Gln Gly Ala Arg Arg Gln Ala Phe Leu Ala Phe Gly Asp		
1	5	10
Val Thr Val Asp Phe Thr Gln Lys Glu Trp Arg Leu Leu Ser Pro Ala		
20	25	30
Gln Arg Ala Leu Tyr Arg Glu Val Thr Leu Glu Asn Tyr Ser His Leu		
35	40	45
Val Ser Leu Gly Ile Leu His Ser Lys Pro Glu Leu Ile Arg Arg Leu		
50	55	60
Glu Gln Gly Glu Val Pro Trp Gly Glu Glu Arg Arg Arg Arg Pro Gly		
65	70	75
Pro Cys Ala Gly Ile Tyr Ala Glu His Val Leu Arg Pro Lys Asn Leu		
85	90	95
Gly Leu Ala His Gln Arg Gln Gln Gln Leu Gln Phe Ser Asp Gln Ser		
100	105	110

Phe Gln Ser Asp Thr Ala Glu Gly Gln Glu Lys Glu Lys Ser Thr Lys  
 115 120 125  
 Pro Met Ala Phe Ser Ser Pro Pro Leu Arg His Ala Val Ser Ser Arg  
 130 135 140  
 Arg Arg Asn Ser Val Val Glu Ile Glu Ser Ser Gln Gly Gln Arg Glu  
 145 150 155 160  
 Asn Pro Thr Glu Ile Asp Lys Val Leu Lys Gly Ile Glu Asn Ser Arg  
 165 170 175  
 Trp Gly Ala Phe Lys Cys Ala Glu Arg Gly Gln Asp Phe Ser Arg Lys  
 180 185 190  
 Met Met Val Ile Ile His Lys Lys Ala His Ser Arg Gln Lys Leu Phe  
 195 200 205  
 Thr Cys Arg Glu Cys His Gln Gly Phe Arg Asp Glu Ser Ala Leu Leu  
 210 215 220  
 Leu His Gln Asn Thr His Thr Gly Glu Lys Ser Tyr Val Cys Ser Val  
 225 230 235 240  
 Cys Gly Arg Gly Phe Ser Leu Lys Ala Asn Leu Leu Arg His Gln Arg  
 245 250 255  
 Thr His Ser Gly Glu Lys Pro Phe Leu Cys Lys Val Cys Gly Arg Gly  
 260 265 270  
 Tyr Thr Ser Lys Ser Tyr Leu Thr Val His Glu Arg Thr His Thr Gly  
 275 280 285  
 Glu Lys Pro Tyr Glu Cys Gln Glu Cys Gly Arg Arg Phe Asn Asp Lys  
 290 295 300  
 Ser Ser Tyr Asn Lys His Leu Lys Ala His Ser Gly Glu Lys Pro Phe  
 305 310 315 320  
 Val Cys Lys Glu Cys Gly Arg Gly Tyr Thr Asn Lys Ser Tyr Phe Val  
 325 330 335  
 Val His Lys Arg Ile His Ser Gly Glu Lys Pro Tyr Arg Cys Gln Glu

340	345	350
Cys Gly Arg Gly Phe Ser Asn Lys Ser His Leu Ile Thr His Gln Arg		
355	360	365
Thr His Ser Gly Glu Lys Pro Phe Ala Cys Arg Gln Cys Lys Gln Ser		
370	375	380
Phe Ser Val Lys Gly Ser Leu Leu Arg His Gln Arg Thr His Ser Gly		
385	390	395
Glu Lys Pro Phe Val Cys Lys Asp Cys Glu Arg Ser Phe Ser Gln Lys		
405	410	415
Ser Thr Leu Val Tyr His Gln Arg Thr His Ser Gly Glu Lys Pro Phe		
420	425	430
Val Cys Arg Glu Cys Gly Gln Gly Phe Ile Gln Lys Ser Thr Leu Val		
435	440	445
Lys His Gln Ile Thr His Ser Glu Glu Lys Pro Phe Val Cys Lys Asp		
450	455	460
Cys Gly Arg Gly Phe Ile Gln Lys Ser Thr Phe Thr Leu His Gln Arg		
465	470	475
Thr His Ser Glu Glu Lys Pro Tyr Gly Cys Arg Glu Cys Gly Arg Arg		
485	490	495
Phe Arg Asp Lys Ser Ser Tyr Asn Lys His Leu Arg Ala His Leu Gly		
500	505	510
Glu Lys Arg Phe Phe Cys Arg Asp Cys Gly Arg Gly Phe Thr Leu Lys		
515	520	525
Pro Asn Leu Thr Ile His Gln Arg Thr His Ser Gly Glu Lys Pro Phe		
530	535	540
Val Cys Asn Val Cys Gly Gln Gly Phe Ser Trp Lys Arg Ser Leu Thr		
545	550	555
Arg His His Trp Arg Ile His Ser Lys Glu Lys Pro Phe Val Cys Gln		
565	570	575

Glu Cys Lys Arg Gly Tyr Thr Ser Lys Ser Asp Leu Thr Val His Glu  
                   580                                  585                                  590  
 Arg Ile His Thr Gly Glu Arg Pro Tyr Glu Cys Gln Glu Cys Gly Arg  
                   595                                  600                                  605  
 Lys Phe Ser Asn Lys Ser Tyr Tyr Ser Lys His Leu Lys Arg His Leu  
                   610                                  615                                  620  
 Arg Glu Lys Arg Phe Cys Thr Gly Ser Val Gly Glu Ala Ser Ser  
                   625                                  630                                  635

<210> 3318

<211> 249

<212> PRT

<213> Homo sapiens

<400> 3318

Met Thr Ser Trp Ile Pro Leu Met Pro Gly Asp Ser Ala Asp Leu Phe  
           1                                  5                                  10                                  15  
 Gly Asp Gly Thr Thr Glu Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp  
                                   20                                  25                                  30  
 Arg Thr Val Ile Ile Gly Glu Gln Glu His Arg Ile Asp Leu His Met  
                   35                                  40                                  45  
 Ile Arg Pro Tyr Met Lys Val Val Thr His Gly Gly Tyr Tyr Gly Glu  
                   50                                  55                                  60  
 Gly Leu Asn Ala Ile Ile Val Phe Ala Ala Cys Phe Leu Pro Asp Ser  
           65                                  70                                  75                                  80  
 Ser Leu Pro Asp Tyr His Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val  
                                   85                                  90                                  95  
 Ile Ser Ser Leu Glu Leu Leu Val Ala Glu Asp Tyr Met Ile Val Tyr

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Phe Thr Pro Glu Asp Trp His Gly Ile Gln Glu Ile Ala Arg Ser Arg  
 20 25 30  
 Lys Lys Asp Asp Pro Leu Lys Val Gly Arg Phe Gly Ile Gly Phe Asn  
 35 40 45  
 Ser Val Tyr His Ile Thr Asp Val Pro Cys Ile Phe Ser Gly Asp Gln  
 50 55 60  
 Ile Gly Met Leu Asp Pro His Gln Thr Leu Phe Gly Pro His Glu Ser  
 65 70 75 80  
 Gly Gln Cys Trp Asn Leu Lys Asp Asp Ser Lys Glu Ile Ser Glu Leu  
 85 90 95  
 Ser Asp Gln Phe Ala Pro Phe Val Gly Ile Phe Gly Ser Thr Lys Glu  
 100 105 110  
 Thr Phe Ile Asn Gly Asn Phe Pro Gly Thr Phe Phe Arg Phe Pro Leu  
 115 120 125  
 Arg Leu Gln Pro Ser Gln Leu Ser Ser Asn Leu Tyr Asn Lys Gln Lys  
 130 135 140  
 Val Leu Glu Leu Phe Glu Ser Phe Arg Ala Asp Ala Asp Thr Val Leu  
 145 150 155 160  
 Leu Phe Leu Lys Ser Val Gln Asp Val Ser Leu Tyr Val Arg Glu Ala  
 165 170 175  
 Asp Gly Thr Glu Lys Leu Val Phe Arg Val Thr Ser Ser Glu Ser Lys  
 180 185 190  
 Ala Leu Lys His Glu Arg Pro Asn Ser Ile Lys Ile Leu Gly Thr Ala  
 195 200 205  
 Ile Ser Asn Tyr Cys Lys Lys Thr Pro Ser Asn Asn Ile Thr Cys Val  
 210 215 220  
 Thr Tyr His Val Asn Ile Val Leu Glu Glu Glu Ser Thr Lys Asp Ala  
 225 230 235 240  
 Gln Lys Thr Ser Trp Leu Val Cys Asn Ser Val Gly Gly Arg Gly Ile

245 250 255  
Ser Ser Lys Leu Asp Ser Leu Ala Asp Glu Leu Lys Phe Val Pro Ile  
260 265 270  
Ile Gly Ile Ala Met Pro Leu Ser Ser Arg Asp Asp Glu Ala Lys Gly  
275 280 285  
Ala Thr Ser Asp Phe Ser Gly Lys Ala Phe Cys Phe Leu Pro Leu Pro  
290 295 300  
Pro Gly Glu Glu Ser Ser Thr Gly Leu Pro Val His Ile Ser Gly Phe  
305 310 315 320  
Phe Gly Leu Thr Asp Asn Arg Arg Ser Ile Lys Trp Arg Glu Leu Asp  
325 330 335  
Gln Trp Arg Asp Pro Ala Ala Leu Trp Asn Glu Phe Leu Val Met Asn  
340 345 350  
Val Val Pro Lys Ala Tyr Ala Thr Leu Ile Leu Asp Ser Ile Lys Arg  
355 360 365  
Leu Glu Met Glu Lys Ser Ser Asp Phe Pro Leu Ser Val Asp Val Ile  
370 375 380  
Tyr Lys Leu Trp Pro Glu Ala Ser Lys Val Lys Val His Trp Gln Pro  
385 390 395 400  
Val Leu Glu Pro Leu Phe Ser Glu Leu Leu Gln Asn Ala Val Ile Tyr  
405 410 415  
Ser Ile Ser Cys Asp Trp Val Arg Leu Glu Gln Val Tyr Phe Ser Glu  
420 425 430  
Leu Asp Glu Asn Leu Glu Tyr Thr Lys Thr Val Leu Asn Tyr Leu Gln  
435 440 445  
Ser Ser Gly Lys Gln Ile Ala Lys Val Pro Gly Asn Val Asp Ala Ala  
450 455 460  
Val Gln Leu Thr Ala Ala Ser Gly Thr Thr Pro Val Arg Lys Val Thr  
465 470 475 480

Pro Ala Trp Val Arg Gln Val Leu Arg Lys Cys Ala His Leu Gly Cys  
485 490 495  
Ala Glu Glu Lys Leu His Leu Leu Glu Phe Val Leu Ser Asp Gln Ala  
500 505 510  
Tyr Ser Glu Leu Leu Gly Leu Glu Leu Leu Pro Leu Gln Asn Gly Asn  
515 520 525  
Phe Val Pro Phe Ser Ser Ser Val Ser Asp Gln Asp Val Ile Tyr Ile  
530 535 540  
Thr Ser Ala Glu Tyr Pro Arg Ser Leu Phe Pro Ser Leu Glu Gly Arg  
545 550 555 560  
Phe Ile Leu Asp Asn Leu Lys Pro His Leu Val Ala Ala Leu Lys Glu  
565 570 575  
Ala Ala Gln Thr Arg Gly Arg Pro Cys Thr Gln Leu Gln Leu Leu Asn  
580 585 590  
Pro Glu Arg Phe Ala Arg Leu Ile Lys Glu Val Met Asn Thr Phe Trp  
595 600 605  
Pro Gly Arg Glu Leu Ile Val Gln Trp Tyr Pro Phe Asp Glu Asn Arg  
610 615 620  
Asn His Pro Ser Val Ser Trp Leu Lys Met Val Trp Lys Asn Leu Tyr  
625 630 635 640  
Ile His Phe Ser Glu Asp Leu Thr Leu Phe Asp Glu Met Pro Leu Ile  
645 650 655  
Pro Arg Thr Ile Leu Glu Glu Gly Gln Thr Cys Val Glu Leu Ile Arg  
660 665 670  
Leu Arg Ile Pro Ser Leu Val Ile Leu Asp Asp Glu Ser Glu Ala Gln  
675 680 685  
Leu Pro Glu Phe Leu Ala Asp Ile Val Gln Lys Leu Gly Gly Phe Val  
690 695 700  
Leu Lys Lys Leu Asp Ala Ser Ile Gln His Pro Leu Ile Lys Lys Tyr

705                      710                      715                      720  
Ile His Ser Pro Leu Pro Ser Ala Val Leu Gln Ile Met Glu Lys Met  
                         725                      730                      735  
Pro Leu Gln Lys Leu Cys Asn Gln Ile Thr Ser Leu Leu Pro Thr His  
                         740                      745                      750  
Lys Asp Ala Leu Arg Lys Phe Leu Ala Ser Leu Thr Asp Ser Ser Glu  
                         755                      760                      765  
Lys Glu Lys Arg Ile Ile Gln Glu Leu Ala Ile Phe Lys Arg Ile Asn  
                         770                      775                      780  
His Ser Ser Asp Gln Gly Ile Ser Ser Tyr Thr Lys Leu Lys Gly Cys  
785                      790                      795                      800  
Lys Val Leu His His Thr Ala Lys Leu Pro Ala Asp Leu Arg Leu Ser  
                         805                      810                      815  
Ile Ser Val Ile Asp Ser Ser Asp Glu Ala Thr Ile Arg Leu Ala Asn  
                         820                      825                      830  
Met Leu Lys Ile Glu Gln Leu Lys Thr Thr Ser Cys Leu Lys Leu Val  
                         835                      840                      845  
Leu Lys Asp Ile Glu Asn Ala Phe Tyr Ser His Glu Glu Val Thr Gln  
                         850                      855                      860  
Leu Met Leu Trp Val Leu Glu Asn Leu Ser Ser Leu Lys Asn Glu Asn  
865                      870                      875                      880  
Pro Asn Val Leu Glu Trp Leu Thr Pro Leu Lys Phe Ile Gln Ile Ser  
                         885                      890                      895  
Gln Glu Gln Met Val Ser Ala Gly Glu Leu Phe Asp Pro Asp Ile Glu  
                         900                      905                      910  
Val Leu Lys Asp Leu Phe Cys Asn Glu Glu Gly Thr Tyr Phe Pro Pro  
                         915                      920                      925  
Ser Val Phe Thr Ser Pro Asp Ile Leu His Ser Leu Arg Gln Ile Gly  
                         930                      935                      940

Leu Lys Asn Glu Ala Ser Leu Lys Glu Lys Asp Val Val Gln Val  
945 950 955

<210> 3320

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3320

Met Gly Ser Ala Leu Gly Thr Ala Gly Ser Trp Ala Gln Lys Gly Gly  
1 5 10 15  
Thr Lys Val Cys Val Gln His Gln Glu Gln Gln Ala Ala Gly His Lys  
20 25 30  
Arg Glu Val Leu Gly Met Trp Val Gln His Gln Gly Gln Arg Ser Thr  
35 40 45  
Lys Gly Lys Arg Cys Gly Tyr Glu Phe Ser Thr Lys Asp Ser Gly Gln  
50 55 60  
Leu Ile Leu Ala Gly Val Leu Gly Met His Phe Arg His Glu Tyr Gln  
65 70 75 80  
Leu Pro Arg Pro Gly Thr Val Val His Ala Leu Ile Pro Ala Leu Trp  
85 90 95  
Glu Ala Lys Ala Asp Gly Ser Arg Gly Gln Gln Phe Glu Thr Ser Leu  
100 105 110  
Ala Asn Ile Val Lys Leu Cys Leu Tyr  
115 120

<210> 3321

&lt;211&gt; 1268

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3321

Met Arg Glu Leu Glu Met Ser Arg Thr Asn Thr Glu Asn Ile Glu Thr

1 5 10 15

Ser Thr Glu Thr Ala Glu Ser Ser Ser Glu Ser Leu Ser Ser Leu Glu

20 25 30

Gln Leu Asp Leu Leu Phe Glu Lys Glu Gln Gly Ala Val Arg Lys Ala

35 40 45

Gly Trp Leu Phe Phe Lys Pro Leu Val Thr Val Gln Lys Glu Arg Lys

50 55 60

Leu Glu Leu Val Ala Arg Arg Lys Trp Lys Gln Tyr Trp Val Thr Leu

65 70 75 80

Lys Gly Cys Thr Leu Leu Phe Tyr Glu Thr Tyr Gly Lys Asn Ser Met

85 90 95

Asp Gln Ser Ser Ala Pro Arg Cys Ala Leu Phe Ala Glu Asp Ser Ile

100 105 110

Val Gln Ser Val Pro Glu His Pro Lys Lys Glu Asn Val Phe Cys Leu

115 120 125

Ser Asn Ser Phe Gly Asp Val Tyr Leu Phe Gln Ala Thr Ser Gln Thr

130 135 140

Asp Leu Glu Asn Trp Val Thr Ala Val His Ser Ala Cys Ala Ser Leu

145 150 155 160

Phe Ala Lys Lys His Gly Lys Glu Asp Thr Leu Arg Leu Leu Lys Asn

165 170 175

Gln Thr Lys Asn Leu Leu Gln Lys Ile Asp Met Asp Ser Lys Met Lys

180 185 190

Lys Met Ala Glu Leu Gln Leu Ser Val Val Ser Asp Pro Lys Asn Arg  
 195 200 205

Lys Ala Ile Glu Asn Gln Ile Gln Gln Trp Glu Gln Asn Leu Glu Lys  
 210 215 220

Phe His Met Asp Leu Phe Arg Met Arg Cys Tyr Leu Ala Ser Leu Gln  
 225 230 235 240

Gly Gly Glu Leu Pro Asn Pro Lys Ser Leu Leu Ala Ala Ala Ser Arg  
 245 250 255

Pro Ser Lys Leu Ala Leu Gly Arg Leu Gly Ile Leu Ser Val Ser Ser  
 260 265 270

Phe His Ala Leu Val Cys Ser Arg Asp Asp Ser Ala Leu Arg Lys Arg  
 275 280 285

Thr Leu Ser Leu Thr Gln Arg Gly Arg Asn Lys Lys Gly Ile Phe Ser  
 290 295 300

Ser Leu Lys Gly Leu Asp Thr Leu Ala Arg Lys Gly Lys Glu Lys Arg  
 305 310 315 320

Pro Ser Ile Thr Gln Val Asp Glu Leu Leu His Ile Tyr Gly Ser Thr  
 325 330 335

Val Asp Gly Val Pro Arg Asp Asn Ala Trp Glu Ile Gln Thr Tyr Val  
 340 345 350

His Phe Gln Asp Asn His Gly Val Thr Val Gly Ile Lys Pro Glu His  
 355 360 365

Arg Val Glu Asp Ile Leu Thr Leu Ala Cys Lys Met Arg Gln Leu Glu  
 370 375 380

Pro Ser His Tyr Gly Leu Gln Leu Arg Lys Leu Val Asp Asp Asn Val  
 385 390 395 400

Glu Tyr Cys Ile Pro Ala Pro Tyr Glu Tyr Met Gln Gln Gln Val Tyr  
 405 410 415

Asp Glu Ile Glu Val Phe Pro Leu Asn Val Tyr Asp Val Gln Leu Thr

420 425 430  
Lys Thr Gly Ser Val Cys Asp Phe Gly Phe Ala Val Thr Ala Gln Val  
435 440 445  
Asp Glu Arg Gln His Leu Ser Arg Ile Phe Ile Ser Asp Val Leu Pro  
450 455 460  
Asp Gly Leu Ala Tyr Gly Glu Gly Leu Arg Lys Gly Asn Glu Ile Met  
465 470 475 480  
Thr Leu Asn Gly Glu Ala Val Ser Asp Leu Asp Leu Lys Gln Met Glu  
485 490 495  
Ala Leu Phe Ser Glu Lys Ser Val Gly Leu Thr Leu Ile Ala Arg Pro  
500 505 510  
Pro Asp Thr Lys Ala Thr Leu Cys Thr Ser Trp Ser Asp Ser Asp Leu  
515 520 525  
Phe Ser Arg Asp Gln Lys Ser Leu Leu Pro Pro Pro Asn Gln Ser Gln  
530 535 540  
Leu Leu Glu Glu Phe Leu Asp Asn Phe Lys Lys Asn Thr Ala Asn Asp  
545 550 555 560  
Phe Ser Asn Val Pro Asp Ile Thr Thr Gly Leu Lys Arg Ser Gln Thr  
565 570 575  
Asp Gly Thr Leu Asp Gln Val Ser His Arg Glu Lys Met Glu Gln Thr  
580 585 590  
Phe Arg Ser Ala Glu Gln Ile Thr Ala Leu Cys Lys Ser Phe Asn Asp  
595 600 605  
Ser Gln Ala Asn Gly Met Glu Gly Pro Arg Glu Asn Gln Asp Pro Pro  
610 615 620  
Pro Arg Pro Leu Ala Arg His Leu Ser Asp Ala Asp Arg Leu Arg Lys  
625 630 635 640  
Val Ile Gln Glu Leu Val Asp Thr Glu Lys Ser Tyr Val Lys Asp Leu  
645 650 655

Ser Cys Leu Phe Glu Leu Tyr Leu Glu Pro Leu Gln Asn Glu Thr Phe  
660 665 670  
Leu Thr Gln Asp Glu Met Glu Ser Leu Phe Gly Ser Leu Pro Glu Met  
675 680 685  
Leu Glu Phe Gln Lys Val Phe Leu Glu Thr Leu Glu Asp Gly Ile Ser  
690 695 700  
Ala Ser Ser Asp Phe Asn Thr Leu Glu Thr Pro Ser Gln Phe Arg Lys  
705 710 715 720  
Leu Leu Phe Pro Leu Gly Gly Ser Phe Leu Tyr Tyr Ala Asp His Phe  
725 730 735  
Lys Leu Tyr Ser Gly Phe Cys Ala Asn His Ile Lys Val Gln Lys Val  
740 745 750  
Leu Glu Arg Ala Lys Thr Asp Lys Ala Phe Lys Ala Phe Leu Asp Ala  
755 760 765  
Arg Asn Pro Thr Lys Gln His Ser Ser Thr Leu Glu Ser Tyr Leu Ile  
770 775 780  
Lys Pro Val Gln Arg Val Leu Lys Tyr Pro Leu Leu Leu Lys Glu Leu  
785 790 795 800  
Val Ser Leu Thr Asp Gln Glu Ser Glu Glu His Tyr His Leu Thr Glu  
805 810 815  
Ala Leu Lys Ala Met Glu Lys Val Ala Ser His Ile Asn Glu Met Gln  
820 825 830  
Lys Ile Tyr Glu Asp Tyr Gly Thr Val Phe Asp Arg Leu Val Ala Glu  
835 840 845  
Gln Ser Gly Thr Glu Lys Glu Gln Pro Glu Trp Ser Ser Glu Val Met  
850 855 860  
Asp Val Leu Asp Pro Arg Gly Lys Leu Thr Lys Gly Thr Leu Glu Glu  
865 870 875 880  
Pro Arg Thr Leu Val Thr Glu Leu Ser Met Gly Glu Leu Leu Met His

885 890 895  
Ser Thr Val Ser Trp Leu Asn Pro Phe Leu Ser Leu Gly Lys Ala Arg  
900 905 910  
Lys Asp Leu Glu Leu Thr Val Phe Val Phe Lys Arg Ala Val Ile Leu  
915 920 925  
Val Tyr Lys Lys Asn Cys Lys Leu Lys Lys Lys Leu Pro Ser Asn Ser  
930 935 940  
Arg Pro Ala His Asn Ser Thr Asp Leu Asp Pro Phe Lys Phe Arg Trp  
945 950 955 960  
Leu Ile Pro Ile Ser Ala Leu Gln Val Arg Leu Gly Asn Pro Ala Gly  
965 970 975  
Thr Glu Asn Asn Ser Ile Trp Glu Leu Ile His Thr Lys Ser Glu Ile  
980 985 990  
Glu Gly Arg Pro Glu Thr Ile Phe Gln Leu Cys Cys Ser Asp Ser Glu  
995 1000 1005  
Ser Lys Thr Asn Ile Val Lys Val Ile Arg Ser Ile Leu Arg Glu Asn  
1010 1015 1020  
Phe Arg Arg His Ile Lys Cys Glu Leu Pro Leu Glu Lys Thr Cys Lys  
1025 1030 1035 1040  
Asp Arg Leu Val Pro Leu Lys Asn Arg Val Pro Val Ser Ala Lys Leu  
1045 1050 1055  
Ala Ser Ser Arg Ser Leu Lys Val Leu Lys Asn Ser Ser Ser Asn Glu  
1060 1065 1070  
Trp Thr Gly Glu Thr Gly Lys Gly Thr Leu Leu Asp Ser Tyr Glu Gly  
1075 1080 1085  
Ser Leu Ser Ser Gly Thr Gln Ser Ser Gly Cys Pro Thr Ala Glu Gly  
1090 1095 1100  
Arg Gln Asp Ser Lys Ser Thr Ser Pro Gly Lys Tyr Pro His Pro Gly  
1105 1110 1115 1120

Leu Ala Asp Phe Ala Asp Asn Leu Ile Lys Glu Ser Asp Ile Leu Ser  
1125 1130 1135  
Asp Glu Asp Asp Asp His Arg Gln Thr Val Lys Gln Gly Ser Pro Thr  
1140 1145 1150  
Lys Asp Ile Glu Ile Gln Phe Gln Arg Leu Arg Ile Ser Glu Asp Pro  
1155 1160 1165  
Asp Val His Pro Glu Ala Glu Gln Gln Pro Gly Pro Glu Ser Gly Glu  
1170 1175 1180  
Gly Gln Lys Gly Gly Glu Gln Pro Lys Leu Val Arg Gly His Phe Cys  
1185 1190 1195 1200  
Pro Ile Lys Arg Lys Thr Asn Ser Thr Lys Arg Asp Arg Gly Thr Leu  
1205 1210 1215  
Leu Lys Ala Gln Ile Arg His Gln Ser Leu Asp Ser Gln Ser Glu Asn  
1220 1225 1230  
Ala Thr Ile Asp Leu Asn Ser Val Leu Glu Arg Glu Phe Ser Val Gln  
1235 1240 1245  
Ser Leu Thr Ser Val Val Ser Glu Glu Cys Phe Tyr Glu Thr Glu Ser  
1250 1255 1260  
His Gly Lys Ser  
1265

&lt;210&gt; 3322

&lt;211&gt; 514

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3322

Met Glu Glu Asn Val Phe Trp Glu Cys Lys Ala Asn Gly Arg Pro Lys

1	5	10	15
Pro Thr Tyr Lys Trp Leu Lys Asn Gly Glu Pro Leu Leu Thr Arg Asp			
20	25	30	
Arg Ile Gln Ile Glu Gln Gly Thr Leu Asn Ile Thr Ile Val Asn Leu			
35	40	45	
Ser Asp Ala Gly Met Tyr Gln Cys Leu Ala Glu Asn Lys His Gly Val			
50	55	60	
Ile Phe Ser Asn Ala Glu Leu Ser Val Ile Ala Val Gly Pro Asp Phe			
65	70	75	80
Ser Arg Thr Leu Leu Lys Arg Val Thr Leu Val Lys Val Gly Gly Glu			
85	90	95	
Val Val Ile Glu Cys Lys Pro Lys Ala Ser Pro Lys Pro Val Tyr Thr			
100	105	110	
Trp Lys Lys Gly Arg Asp Ile Leu Lys Glu Asn Glu Arg Ile Thr Ile			
115	120	125	
Ser Glu Asp Gly Asn Leu Arg Ile Ile Asn Val Thr Lys Ser Asp Ala			
130	135	140	
Gly Ser Tyr Thr Cys Ile Ala Thr Asn His Phe Gly Thr Ala Ser Ser			
145	150	155	160
Thr Gly Asn Leu Val Val Lys Asp Pro Thr Arg Val Met Val Pro Pro			
165	170	175	
Ser Ser Met Asp Val Thr Val Gly Glu Ser Ile Val Leu Pro Cys Gln			
180	185	190	
Val Thr His Asp His Ser Leu Asp Ile Val Phe Thr Trp Ser Phe Asn			
195	200	205	
Gly His Leu Ile Asp Phe Asp Arg Asp Gly Asp His Phe Glu Arg Val			
210	215	220	
Gly Gly Asp Ser Ala Gly Asp Leu Met Ile Arg Asn Ile Gln Leu Lys			
225	230	235	240

His Ala Gly Lys Tyr Val Cys Met Val Gln Thr Ser Val Asp Arg Leu			
245	250	255	
Ser Ala Ala Ala Asp Leu Ile Val Arg Gly Pro Pro Gly Pro Pro Glu			
260	265	270	
Ala Val Thr Ile Asp Glu Ile Thr Asp Thr Thr Ala Gln Leu Ser Trp			
275	280	285	
Arg Pro Gly Pro Asp Asn His Ser Pro Ile Thr Met Tyr Val Ile Gln			
290	295	300	
Ala Arg Thr Pro Phe Ser Val Gly Trp Gln Ala Val Ser Thr Val Pro			
305	310	315	320
Glu Leu Ile Asp Gly Lys Thr Phe Thr Ala Thr Val Val Gly Leu Asn			
325	330	335	
Pro Trp Val Glu Tyr Glu Phe Arg Thr Val Ala Ala Asn Val Ile Gly			
340	345	350	
Ile Gly Glu Pro Ser Arg Pro Ser Glu Lys Arg Arg Thr Glu Glu Ala			
355	360	365	
Leu Pro Glu Val Thr Pro Ala Asn Val Ser Gly Gly Gly Gly Ser Lys			
370	375	380	
Ser Glu Leu Val Ile Thr Trp Glu Thr Val Pro Glu Glu Leu Gln Asn			
385	390	395	400
Gly Arg Gly Phe Gly Tyr Val Val Ala Phe Arg Pro Tyr Gly Lys Met			
405	410	415	
Ile Trp Met Leu Thr Val Leu Ala Ser Ala Asp Ala Ser Arg Tyr Val			
420	425	430	
Phe Arg Asn Glu Ser Val His Pro Phe Ser Pro Phe Glu Val Lys Val			
435	440	445	
Gly Val Phe Asn Asn Lys Gly Glu Gly Pro Phe Ser Pro Thr Thr Val			
450	455	460	
Val Tyr Ser Ala Glu Glu Glu Pro Thr Lys Pro Pro Ala Ser Ile Phe			

465                      470                      475                      480  
 Ala Arg Ser Leu Ser Ala Thr Asp Ile Glu Val Phe Trp Ala Ser Pro  
                          485                      490                      495  
 Leu Glu Lys Asn Arg Gly Arg Ile Gln Gly Tyr Glu Val Lys Tyr Trp  
                          500                      505                      510  
 Arg His

<210> 3323

<211> 429

<212> PRT

<213> Homo sapiens

<400> 3323

Met Leu Gly Lys Arg Phe Pro Asn Ile Lys Val Ile Glu Ser Gly Val  
     1                      5                      10                      15  
 Lys Gln Leu Lys Ser Glu Glu His Cys Ile Val Thr Glu Asp Gly Asn  
                          20                      25                      30  
 Gln His Val Tyr Lys Lys Leu Cys Leu Cys Ala Gly Ala Lys Pro Lys  
                          35                      40                      45  
 Leu Ile Cys Glu Gly Asn Pro Tyr Val Leu Gly Ile Arg Asp Thr Asp  
                          50                      55                      60  
 Ser Ala Gln Glu Phe Gln Lys Gln Leu Thr Lys Ala Lys Arg Ile Met  
                          65                      70                      75                      80  
 Ile Ile Gly Asn Gly Gly Ile Ala Leu Glu Leu Val Tyr Glu Ile Glu  
                          85                      90                      95  
 Gly Cys Glu Val Ile Trp Ala Ile Lys Asp Lys Ala Ile Gly Asn Thr  
                          100                      105                      110

Phe Phe Asp Ala Gly Ala Ala Glu Phe Leu Thr Ser Lys Leu Ile Ala  
115 120 125  
Glu Lys Ser Glu Ala Lys Ile Ala His Lys Arg Thr Arg Tyr Thr Thr  
130 135 140  
Glu Gly Arg Lys Lys Glu Ala Arg Ser Lys Ser Lys Ala Asp Asn Val  
145 150 155 160  
Gly Ser Ala Leu Gly Pro Asp Trp His Glu Gly Leu Asn Leu Lys Gly  
165 170 175  
Thr Lys Glu Phe Ser His Lys Ile His Leu Glu Thr Met Cys Glu Val  
180 185 190  
Lys Lys Ile Tyr Leu Gln Asp Glu Phe Arg Ile Leu Lys Lys Lys Ser  
195 200 205  
Phe Thr Phe Pro Arg Asp His Lys Ser Val Thr Ala Asp Thr Glu Met  
210 215 220  
Trp Pro Val Tyr Val Glu Leu Thr Asn Glu Lys Ile Tyr Gly Cys Asp  
225 230 235 240  
Phe Ile Val Ser Ala Thr Gly Val Thr Pro Asn Val Glu Pro Phe Leu  
245 250 255  
His Gly Asn Ser Phe Asp Leu Gly Glu Asp Gly Gly Leu Lys Val Asp  
260 265 270  
Asp His Met His Thr Ser Leu Pro Asp Ile Tyr Ala Ala Gly Asp Ile  
275 280 285  
Cys Thr Thr Ser Trp Gln Leu Ser Pro Val Trp Gln Gln Met Arg Leu  
290 295 300  
Trp Thr Gln Ala Arg Gln Met Gly Trp Tyr Ala Ala Lys Cys Met Ala  
305 310 315 320  
Ala Ala Ser Ser Gly Asp Ser Ile Asp Met Asp Phe Ser Phe Glu Leu  
325 330 335  
Phe Ala His Val Thr Lys Phe Phe Asn Tyr Lys Val Val Leu Leu Gly

340	345	350	
Lys Tyr Asn Ala Gln Gly Leu Gly Ser Asp His Glu Leu Met Leu Arg			
355	360	365	
Cys Thr Lys Gly Arg Glu Tyr Ile Lys Val Val Met Gln Asn Gly Arg			
370	375	380	
Met Met Gly Ala Val Leu Ile Gly Glu Thr Asp Leu Glu Glu Thr Phe			
385	390	395	400
Glu Asn Leu Ile Leu Asn Gln Met Asn Leu Ser Ser Tyr Gly Glu Asp			
405	410	415	
Leu Leu Asp Pro Asn Ile Asp Ile Glu Asp Tyr Phe Asp			
420	425		

&lt;210&gt; 3324

&lt;211&gt; 1130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3324

Met Gly Lys Val Gly Ala Gly Gly Gly Ser Gln Ala Arg Leu Ser Ala
1                      5                      10                      15
Leu Leu Ala Gly Ala Gly Leu Leu Ile Leu Cys Ala Pro Gly Val Cys
20                      25                      30
Gly Gly Gly Ser Cys Cys Pro Ser Pro His Pro Ser Ser Ala Pro Arg
35                      40                      45
Ser Ala Ser Thr Pro Arg Gly Phe Ser His Gln Gly Arg Pro Gly Arg
50                      55                      60
Ala Pro Ala Thr Pro Leu Pro Leu Val Val Arg Pro Leu Phe Ser Val
65                      70                      75                      80

Ala Pro Gly Asp Arg Ala Leu Ser Leu Glu Arg Ala Arg Gly Thr Gly  
                             85                            90                            95  
 Ala Ser Met Ala Val Ala Ala Arg Ser Gly Arg Arg Arg Arg Ser Gly  
                             100                            105                            110  
 Ala Asp Gln Glu Lys Ala Glu Arg Gly Glu Gly Ala Ser Arg Ser Pro  
                             115                            120                            125  
 Arg Gly Val Leu Arg Asp Gly Gly Gln Gln Glu Pro Gly Thr Arg Glu  
                             130                            135                            140  
 Arg Asp Pro Asp Lys Ala Thr Arg Phe Arg Met Glu Glu Leu Arg Leu  
 145                            150                            155                            160  
 Thr Ser Thr Thr Phe Ala Leu Thr Gly Asp Ser Ala His Asn Gln Ala  
                             165                            170                            175  
 Met Val His Trp Ser Gly His Asn Ser Ser Val Ile Leu Ile Leu Thr  
                             180                            185                            190  
 Lys Leu Tyr Asp Tyr Asn Leu Gly Ser Ile Thr Glu Ser Ser Leu Trp  
                             195                            200                            205  
 Arg Ser Thr Asp Tyr Gly Thr Thr Tyr Glu Lys Leu Asn Asp Lys Val  
                             210                            215                            220  
 Gly Leu Lys Thr Ile Leu Ser Tyr Leu Tyr Val Cys Pro Thr Asn Lys  
 225                            230                            235                            240  
 Arg Lys Ile Met Leu Leu Thr Asp Pro Glu Ile Glu Ser Ser Leu Leu  
                             245                            250                            255  
 Ile Ser Ser Asp Glu Gly Ala Thr Tyr Gln Lys Tyr Arg Leu Asn Phe  
                             260                            265                            270  
 Tyr Ile Gln Ser Leu Leu Phe His Pro Lys Gln Glu Asp Trp Ile Leu  
                             275                            280                            285  
 Ala Tyr Ser Gln Asp Gln Lys Leu Tyr Ser Ser Ala Glu Phe Gly Arg  
                             290                            295                            300  
 Arg Trp Gln Leu Ile Gln Glu Gly Val Val Pro Asn Arg Phe Tyr Trp

305                      310                      315                      320  
Ser Val Met Gly Ser Asn Lys Glu Pro Asp Leu Val His Leu Glu Ala  
                         325                      330                      335  
Arg Thr Val Asp Gly His Ser His Tyr Leu Thr Cys Arg Met Gln Asn  
                         340                      345                      350  
Cys Thr Glu Ala Asn Arg Asn Gln Pro Phe Pro Gly Tyr Ile Asp Pro  
                         355                      360                      365  
Asp Ser Leu Ile Val Gln Asp His Tyr Val Phe Val Gln Leu Thr Ser  
                         370                      375                      380  
Gly Gly Arg Pro His Tyr Tyr Val Ser Tyr Arg Arg Asn Ala Phe Ala  
385                      390                      395                      400  
Gln Met Lys Leu Pro Lys Tyr Ala Leu Pro Lys Asp Met His Val Ile  
                         405                      410                      415  
Ser Thr Asp Glu Asn Gln Val Phe Ala Ala Val Gln Glu Trp Asn Gln  
                         420                      425                      430  
Asn Asp Thr Tyr Asn Leu Tyr Ile Ser Asp Thr Arg Gly Val Tyr Phe  
                         435                      440                      445  
Thr Leu Ala Leu Glu Asn Val Gln Ser Ser Arg Gly Pro Glu Gly Asn  
                         450                      455                      460  
Ile Met Ile Asp Leu Tyr Glu Val Ala Gly Ile Lys Gly Met Phe Leu  
465                      470                      475                      480  
Ala Asn Lys Lys Ile Asp Asn Gln Val Lys Thr Phe Ile Thr Tyr Asn  
                         485                      490                      495  
Lys Gly Arg Asp Trp Arg Leu Leu Gln Ala Pro Asp Thr Asp Leu Arg  
                         500                      505                      510  
Gly Asp Pro Val His Cys Leu Leu Pro Tyr Cys Ser Leu His Leu His  
                         515                      520                      525  
Leu Lys Val Ser Glu Asn Pro Tyr Thr Ser Gly Ile Ile Ala Ser Lys  
                         530                      535                      540

Asp Thr Ala Pro Ser Ile Ile Val Ala Ser Gly Asn Ile Gly Ser Glu  
545 550 555 560  
Leu Ser Asp Thr Asp Ile Ser Met Phe Val Ser Ser Asp Ala Gly Asn  
565 570 575  
Thr Trp Arg Gln Ile Phe Glu Glu Glu His Ser Val Leu Tyr Leu Asp  
580 585 590  
Gln Gly Gly Val Leu Val Ala Met Lys His Thr Ser Leu Pro Ile Arg  
595 600 605  
His Leu Trp Leu Ser Phe Asp Glu Gly Arg Ser Trp Ser Lys Tyr Ser  
610 615 620  
Phe Thr Ser Ile Pro Leu Phe Val Asp Gly Val Leu Gly Glu Pro Gly  
625 630 635 640  
Glu Glu Thr Leu Ile Met Thr Val Phe Gly His Phe Ser His Arg Ser  
645 650 655  
Glu Trp Gln Leu Val Lys Val Asp Tyr Lys Ser Ile Phe Asp Arg Arg  
660 665 670  
Cys Ala Glu Glu Asp Tyr Arg Pro Trp Gln Leu His Ser Gln Gly Glu  
675 680 685  
Ala Cys Ile Met Gly Ala Lys Arg Ile Tyr Lys Lys Arg Lys Ser Glu  
690 695 700  
Arg Lys Cys Met Gln Gly Lys Tyr Ala Gly Ala Met Glu Ser Glu Pro  
705 710 715 720  
Cys Val Cys Thr Glu Ala Asp Phe Asp Cys Asp Tyr Gly Tyr Glu Arg  
725 730 735  
His Ser Asn Gly Gln Cys Leu Pro Ala Phe Trp Phe Asn Pro Ser Ser  
740 745 750  
Leu Ser Lys Asp Cys Ser Leu Gly Gln Ser Tyr Leu Asn Ser Thr Gly  
755 760 765  
Tyr Arg Lys Val Val Ser Asn Asn Cys Thr Asp Gly Val Arg Glu Gln

770 775 780  
Tyr Thr Ala Lys Pro Gln Lys Cys Pro Gly Lys Ala Pro Arg Gly Leu  
785 790 795 800  
Arg Ile Val Thr Ala Asp Gly Lys Leu Thr Ala Glu Gln Gly His Asn  
805 810 815  
Val Thr Leu Met Val Gln Leu Glu Glu Gly Asp Val Gln Arg Thr Leu  
820 825 830  
Ile Gln Val Asp Phe Gly Asp Gly Ile Ala Val Ser Tyr Val Asn Leu  
835 840 845  
Ser Ser Met Glu Asp Gly Ile Lys His Val Tyr Gln Asn Val Gly Ile  
850 855 860  
Phe Arg Val Thr Val Gln Val Asp Asn Ser Leu Gly Ser Asp Ser Ala  
865 870 875 880  
Val Leu Tyr Leu His Val Thr Cys Pro Leu Glu His Val His Leu Ser  
885 890 895  
Leu Pro Phe Val Thr Thr Lys Asn Lys Glu Val Asn Ala Thr Ala Val  
900 905 910  
Leu Trp Pro Ser Gln Val Gly Thr Leu Thr Tyr Val Trp Trp Tyr Gly  
915 920 925  
Asn Asn Thr Glu Pro Leu Ile Thr Leu Glu Gly Ser Ile Ser Phe Arg  
930 935 940  
Phe Thr Ser Glu Gly Met Asn Thr Ile Thr Val Gln Val Ser Ala Gly  
945 950 955 960  
Asn Ala Ile Leu Gln Asp Thr Lys Thr Ile Ala Val Tyr Glu Glu Phe  
965 970 975  
Arg Ser Leu Arg Leu Ser Phe Ser Pro Asn Leu Asp Asp Tyr Asn Pro  
980 985 990  
Asp Ile Pro Glu Trp Arg Arg Asp Ile Gly Arg Val Ile Lys Lys Ser  
995 1000 1005

Leu Val Glu Ala Thr Gly Val Pro Gly Gln His Ile Leu Val Ala Val

1010

1015

1020

Leu Pro Gly Leu Pro Thr Thr Ala Glu Leu Phe Val Leu Pro Tyr Gln

1025

1030

1035

1040

Asp Pro Ala Gly Glu Asn Lys Arg Ser Thr Asp Asp Leu Glu Gln Ile

1045

1050

1055

Ser Glu Leu Leu Ile His Thr Leu Asn Gln Asn Ser Val His Phe Glu

1060

1065

1070

Leu Lys Pro Gly Val Arg Val Leu Val His Ala Ala His Leu Thr Ala

1075

1080

1085

Ala Pro Leu Val Asp Leu Thr Pro Thr His Ser Gly Ser Ala Met Leu

1090

1095

1100

Val Leu Leu Ser Val Val Phe Val Gly Leu Ala Val Phe Val Ile Tyr

1105

1110

1115

1120

Lys Phe Lys Arg Lys Tyr Phe His Ser Cys

1125

1130

<210> 3325

<211> 196

<212> PRT

<213> Homo sapiens

<400> 3325

Met Met Ser Asp Gly Lys Leu Gly Arg Gln Ser Val Asp Ser Pro Cys

1

5

10

15

Ser Gly Thr Thr Cys Ser Leu Thr Ala Ala Gly Gly His Thr Thr Arg

20

25

30

Ile Ala Leu Leu Cys His Leu Val Ile Val Phe Phe Ala Leu Thr Glu

35	40	45
Asp Arg Lys Gly Gly Lys Ile Ser Phe Cys Ala His Thr Pro Leu Asn		
50	55	60
Cys Met Phe Gly Phe Phe Cys Phe Val Lys Gly Cys Lys Thr Ser Ser		
65	70	75
Ser Cys Ser Thr Ala Asn Thr Arg Gly Gln His Pro Ala Ser Cys Leu		
85	90	95
Cys Phe Pro Ala Gly Arg Thr His Arg Gln Ser Gly Asn Leu Thr Phe		
100	105	110
Pro Arg Ser Glu Asn Gly Leu Phe Ser Ser Glu Val Met Ile Arg Glu		
115	120	125
Ser Leu Leu Ile Phe Val Ile His Thr Lys Thr Leu Thr Ser Gly Glu		
130	135	140
Lys Leu Asp Thr Leu Asn Asn Glu Lys Ser Glu Gln Ala Phe Arg Gly		
145	150	155
Cys Val Ser His Thr Glu Gly Ala Ser Pro Trp Ala His Ser Gln Asp		
165	170	175
Pro Ser Phe Thr Asp His Arg Gly Cys Val Leu Gln Val Ala Asp Thr		
180	185	190
Ala Leu Trp Phe		
195		

&lt;210&gt; 3326

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3326

Met Leu Ser Leu Glu Cys Thr Gln Leu Pro His His Ala Ser Cys Thr  
 1 5 10 15  
 Cys Cys Ser Thr Ala Pro Pro Ser Val Ser Ala Ala Arg Pro Ser Pro  
 20 25 30  
 Cys Ser Ile Val Val Ser Phe Asp Cys Ala Gly Trp Arg Val Pro Cys  
 35 40 45  
 Pro Pro Ser Leu Val Phe Gln Asn Ser Phe Gly Trp Phe Cys Thr Cys  
 50 55 60  
 Val Phe His Met Val Phe Thr Ser Ile Val Arg Lys Thr Lys His Phe  
 65 70 75 80  
 Ser Lys Ser His Leu Glu Ser Phe Asn Pro Phe Met Ser Val Ser Ala  
 85 90 95  
 Lys Phe Ser Cys Gly Leu Ala Gly Leu Leu Cys Ser Val Pro Glu Arg  
 100 105 110  
 Ala Gly Leu Ser Leu Gly Ile Cys Arg His Pro Leu Trp His Ser Ala  
 115 120 125  
 Gly Thr Leu Ser Ser Asn Leu Leu Ala Pro Ser Ala Arg Trp Asp His  
 130 135 140

&lt;210&gt; 3327

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3327

Met Tyr Phe Tyr Asp Gly Val Ser Arg Asp Ala Ala Ser Ala Ala Leu  
 1 5 10 15  
 Ala Asp Ala Ala Glu Glu Leu Leu Asp Arg Leu Ala Ser His Ser Met

20 25 30  
Leu Pro Ser Asp Val Ser Ile Leu Tyr His Met Lys Thr Leu Leu Leu  
35 40 45  
Leu Gln Asp Thr Glu Arg Leu Lys His Ala Leu Glu Met Phe Pro Glu  
50 55 60  
His Cys Thr Met Pro Pro Gly Gly Lys Ser Glu Ala Gln Arg Ala Trp  
65 70 75 80  
Ala Asn Gly Thr Gly His Thr Ala His Gln Trp Leu His Val Ser Ser  
85 90 95  
Asp Leu Gly Leu Leu Leu Ser Val Phe Pro Ile Ser Met Thr Leu Thr  
100 105 110  
Asp Ala Gly Val Gln Gly Tyr Val His Pro Arg Pro Ala Gly Ala Gln  
115 120 125  
Ser Thr Glu Ala Trp Pro Ser Glu Glu Thr Glu Gly Ser Val Gly His  
130 135 140  
His Asp Glu Ser Leu Val Ser Thr Arg Pro Ser Cys Ala Phe Leu Leu  
145 150 155 160  
His Gly Thr Ala Arg Val Gly Val Pro Glu Gly Pro Ser Trp Pro Trp  
165 170 175  
Lys Val Pro Tyr Ser Arg Gln Glu  
180

&lt;210&gt; 3328

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3328

Met Gly Ser Val Phe Leu Gly Lys Ser Gly Leu Leu Cys Lys Ala Pro  
 1 5 10 15  
 Ala Leu Pro Asp Ser Ser Pro Asn Thr Arg Ala Lys Val Gly Val Leu  
 20 25 30  
 Phe Leu Pro Leu Leu Pro Pro Asn Asp Leu Glu Gly Ile Cys Val Pro  
 35 40 45  
 Ala Val Pro Phe Pro Ala Thr Phe Ala Pro Gly Asn Ser Pro Pro His  
 50 55 60  
 Thr Ser Pro His Leu Ile Gly Asn Phe Pro Leu Pro Asp Leu Arg Ser  
 65 70 75 80  
 Ile Ser Thr Pro Ser Leu Gln Asn Gly Asp Asn Glu Leu Thr Lys Ser  
 85 90 95  
 Met Phe Asn Thr Leu Leu Thr Glu Leu Thr Met Ile Leu Gly Gly Ser  
 100 105 110  
 Gly Met

&lt;210&gt; 3329

&lt;211&gt; 326

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3329

Met Lys Cys Thr Ala Val Leu Cys Cys Arg Met Ala Pro Leu Gln Lys  
 1 5 10 15  
 Ala Gln Ile Val Arg Met Val Lys Asn Leu Lys Gly Ser Pro Ile Thr  
 20 25 30  
 Leu Ser Ile Gly Asp Gly Ala Asn Asp Val Ser Met Ile Leu Glu Ser

35	40	45
His Val Gly Ile Gly Ile Lys Gly Lys Glu Gly Arg Gln Ala Ala Arg		
50	55	60
Asn Ser Asp Tyr Ser Val Pro Lys Phe Lys His Leu Lys Lys Leu Leu		
65	70	75
80		
Leu Ala His Gly His Leu Tyr Tyr Val Arg Ile Ala His Leu Val Gln		
85	90	95
Tyr Phe Phe Tyr Lys Asn Leu Cys Phe Ile Leu Pro Gln Phe Leu Tyr		
100	105	110
Gln Phe Phe Cys Gly Phe Ser Gln Gln Pro Leu Tyr Asp Ala Ala Tyr		
115	120	125
Leu Thr Met Tyr Asn Ile Cys Phe Thr Ser Leu Pro Ile Leu Ala Tyr		
130	135	140
Ser Leu Leu Glu Gln His Ile Asn Ile Asp Thr Leu Thr Ser Asp Pro		
145	150	155
160		
Arg Leu Tyr Met Lys Ile Ser Gly Asn Ala Met Leu Gln Leu Gly Pro		
165	170	175
Phe Leu Tyr Trp Thr Phe Leu Ala Ala Phe Glu Gly Thr Val Phe Phe		
180	185	190
Phe Gly Thr Tyr Phe Leu Phe Gln Thr Ala Ser Leu Glu Glu Asn Gly		
195	200	205
Lys Val Tyr Gly Asn Trp Thr Phe Gly Thr Ile Val Phe Thr Val Leu		
210	215	220
Val Phe Thr Val Thr Leu Lys Leu Ala Leu Asp Thr Arg Phe Trp Thr		
225	230	235
240		
Trp Ile Asn His Phe Val Ile Trp Gly Ser Leu Ala Phe Tyr Val Phe		
245	250	255
Phe Ser Phe Phe Trp Gly Gly Ile Ile Trp Pro Phe Leu Lys Gln Gln		
260	265	270

Arg Met Tyr Phe Val Phe Ala Gln Met Leu Ser Ser Val Ser Thr Trp  
 275 280 285  
 Leu Ala Ile Ile Leu Leu Ile Phe Ile Ser Leu Phe Pro Glu Ile Leu  
 290 295 300  
 Leu Ile Val Leu Lys Asn Val Arg Arg Arg Ser Ala Arg Val His His  
 305 310 315 320  
 Leu Ile Ser Ser Ser Ala  
 325

<210> 3330

<211> 913

<212> PRT

<213> Homo sapiens

<400> 3330

Met Pro Gly Glu Ala Val Glu Tyr His Ser Ile Gln Leu Ile Arg Asp  
 1 5 10 15  
 Glu Phe Leu Met Asn Val Gln Lys Phe Ala Ser Asn Ile Gln Arg Thr  
 20 25 30  
 Met Gln Gln Leu Glu Gly Glu Ile Lys Leu Glu Met Pro Ile Ile Ser  
 35 40 45  
 Val Glu Gly Glu Val Ser Asp Leu Ala Ala Asp Pro Glu Thr Val Asp  
 50 55 60  
 Ile Leu Glu Gln Cys Val Ile Asn Trp Leu Asn Gln Ile Ser Thr Ala  
 65 70 75 80  
 Val Glu Ala Gln Leu Lys Lys Thr Pro Gln Gly Lys Gly Pro Leu Ala  
 85 90 95  
 Glu Ile Glu Phe Trp Arg Glu Arg Asn Ala Thr Leu Ser Ala Leu His

100	105	110	
Glu Gln Thr Lys Leu Pro Ile Val Arg Lys Val Leu Asp Val Ile Lys			
115	120	125	
Glu Ser Asp Ser Met Leu Val Ala Asn Leu Gln Pro Val Phe Thr Glu			
130	135	140	
Leu Phe Lys Phe His Thr Glu Ala Ser Asp Asn Val Arg Phe Leu Ser			
145	150	155	160
Thr Val Glu Arg Tyr Phe Lys Asn Ile Thr His Gly Ser Gly Phe His			
165	170	175	
Val Val Leu Asp Thr Ile Pro Ala Met Met Ser Ala Leu Arg Met Val			
180	185	190	
Trp Ile Ile Ser Arg His Tyr Asn Lys Asp Glu Arg Met Ile Pro Leu			
195	200	205	
Met Glu Arg Ile Ala Trp Glu Ile Ala Glu Arg Val Cys Arg Val Val			
210	215	220	
Asn Leu Arg Thr Leu Phe Lys Glu Asn Arg Ala Ser Ala Gln Ser Lys			
225	230	235	240
Thr Leu Glu Ala Arg Asn Thr Leu Arg Leu Trp Lys Lys Ala Tyr Phe			
245	250	255	
Asp Thr Arg Ala Lys Ile Glu Ala Ser Gly Arg Glu Asp Arg Trp Glu			
260	265	270	
Phe Asp Arg Lys Arg Leu Phe Glu Arg Thr Asp Tyr Met Ala Thr Ile			
275	280	285	
Cys Gln Asp Leu Ser Asp Val Leu Gln Val Leu Glu Glu Phe Tyr Asn			
290	295	300	
Ile Phe Gly Pro Glu Leu Lys Ala Val Thr Gly Asp Pro Lys Arg Ile			
305	310	315	320
Asp Asp Val Leu Cys Arg Val Asp Gly Leu Val Thr Pro Met Glu Asn			
325	330	335	

Leu Thr Phe Asp Pro Phe Ser Ile Lys Ser Ser Gln Phe Trp Lys Tyr  
 340 345 350  
 Val Met Asp Glu Phe Lys Ile Glu Val Leu Ile Asp Ile Ile Asn Lys  
 355 360 365  
 Ile Phe Val Gln Asn Leu Glu Asn Pro Pro Leu Tyr Lys Asn His Pro  
 370 375 380  
 Pro Val Ala Gly Ala Ile Tyr Trp Glu Arg Ser Leu Phe Phe Arg Ile  
 385 390 395 400  
 Lys His Thr Ile Leu Arg Phe Gln Glu Val Gln Glu Ile Leu Asp Ser  
 405 410 415  
 Asp Arg Gly Gln Glu Val Lys Gln Lys Tyr Leu Glu Val Gly Arg Thr  
 420 425 430  
 Met Lys Glu Tyr Glu Asp Arg Lys Tyr Glu Gln Trp Met Glu Val Thr  
 435 440 445  
 Glu Gln Val Leu Pro Ala Leu Met Lys Lys Ser Leu Leu Thr Lys Ser  
 450 455 460  
 Ser Ile Ala Thr Glu Glu Pro Ser Thr Leu Glu Arg Gly Ala Val Phe  
 465 470 475 480  
 Ala Ile Asn Phe Ser Pro Ala Leu Arg Glu Ile Ile Asn Glu Thr Lys  
 485 490 495  
 Tyr Leu Glu Gln Leu Gly Phe Thr Val Pro Glu Leu Ala Arg Asn Val  
 500 505 510  
 Ala Leu Gln Glu Asp Lys Phe Leu Arg Tyr Thr Ala Gly Ile Gln Arg  
 515 520 525  
 Met Leu Asp His Tyr His Met Leu Ile Gly Thr Leu Asn Asp Ala Glu  
 530 535 540  
 Ser Val Leu Leu Lys Asp His Ser Gln Glu Leu Leu Arg Val Phe Arg  
 545 550 555 560  
 Ser Gly Tyr Lys Arg Leu Asn Trp Asn Ser Leu Gly Ile Gly Asp Tyr

565	570	575
Ile Thr Gly Cys Lys Gln Ala	Ile Gly Lys Phe Glu Ser Leu Val His	
580	585	590
Gln Ile His Lys Asn Ala Asp Asp	Ile Ser Ser Arg Leu Thr Leu Ile	
595	600	605
Glu Ala Ile Asn Leu Phe Lys Tyr Pro	Ala Ala Lys Ser Glu Glu Glu	
610	615	620
Leu Pro Gly Val Lys Glu Phe Phe Glu His	Ile Glu Arg Glu Arg Ala	
625	630	635
Ser Asp Val Asp His Met Val Arg Trp Tyr	Leu Ala Ile Gly Pro Leu	
645	650	655
Leu Thr Lys Val Glu Gly Leu Val Val His Thr	Asn Thr Gly Lys Ala	
660	665	670
Pro Lys Leu Ala Ser Tyr Tyr Lys Tyr Trp	Glu Lys Lys Ile Tyr Glu	
675	680	685
Val Leu Thr Lys Leu Ile Leu Lys Asn Leu Gln	Ser Phe Asn Ser Leu	
690	695	700
Ile Leu Gly Asn Val Pro Leu Phe His Thr Glu Thr	Ile Leu Thr Ala	
705	710	715
Pro Glu Ile Ile Leu His Pro Asn Thr Asn Glu Ile	Asp Lys Met Cys	
725	730	735
Phe His Cys Val Arg Asn Cys Val Glu Ile Thr Lys His	Phe Val Arg	
740	745	750
Trp Met Asn Gly Ser Cys Ile Glu Cys Pro Pro Gln Lys Gly Glu Glu		
755	760	765
Glu Glu Val Val Ile Ile Asn Phe Tyr Asn Asp Ile Ser Leu Asn Pro		
770	775	780
Gln Ile Ile Glu Gln Ala Val Met Ile Pro Gln Asn Val His Arg Ile		
785	790	795
		800

Leu Ile Asn Leu Met Lys Tyr Leu Gln Lys Trp Lys Arg Tyr Arg Pro

805

810

815

Leu Trp Lys Leu Asp Lys Ala Ile Val Met Glu Lys Phe Ala Ala Lys

820

825

830

Lys Pro Pro Cys Val Ala Tyr Asp Glu Lys Leu Gln Phe Tyr Ser Lys

835

840

845

Ile Ala Tyr Glu Val Met Arg His Pro Leu Ile Lys Asp Glu His Cys

850

855

860

Ile Arg Leu Gln Leu Arg His Leu Ala Asn Thr Val Gln Glu Asn Ala

865

870

875

880

Lys Ser Trp Val Ile Ser Leu Gly Lys Leu Leu Asn Glu Ser Ala Lys

885

890

895

Glu Glu Leu Tyr Asn Leu His Glu Glu Met Glu Val Leu Asn Arg Cys

900

905

910

Val

<210> 3331

<211> 166

<212> PRT

<213> Homo sapiens

<400> 3331

Met Leu Leu Pro Phe Ile Arg Thr Leu Pro Leu Leu Cys Tyr Asn His

1

5

10

15

Leu Leu Val Ser Pro Asp Ser Ala Thr Leu Ser Pro Pro Tyr Ser Leu

20

25

30

Glu Lys Met Thr Asp Leu Val Ala Val Trp Asp Val Ala Leu Ser Asp

35	40	45
Gly Val His Lys Ile Glu Phe Glu His Gly Thr Thr Ser Gly Lys Arg		
50	55	60
Val Val Tyr Val Asp Gly Lys Glu Glu Ile Arg Lys Glu Trp Met Phe		
65	70	75
Lys Leu Val Gly Lys Glu Thr Phe Tyr Val Gly Ala Ala Lys Thr Lys		
85	90	95
Ala Thr Ile Asn Ile Asp Ala Ile Ser Gly Phe Ala Tyr Glu Tyr Thr		
100	105	110
Leu Glu Ile Asn Gly Lys Ser Leu Lys Lys Tyr Met Glu Asp Arg Ser		
115	120	125
Lys Thr Thr Asn Thr Trp Val Leu His Met Asp Gly Glu Asn Phe Arg		
130	135	140
Ile Val Leu Glu Lys Asp Ala Met Asp Val Trp Cys Asn Gly Lys Lys		
145	150	155
Leu Glu Thr Ala Val Ser		160
165		

&lt;210&gt; 3332

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3332

Met Leu Trp Tyr Glu Leu Pro Gly Tyr Leu Arg Leu Pro Cys Lys Gln
1                      5                      10                      15
Leu Trp Pro Asp Trp Val Pro Gly Arg Gly Gln Gln Thr Lys Glu Cys
20                      25                      30

Ser Val Gly Pro Ala Ser Ser Asp Leu Gln Asp His Pro Ala Glu Ile  
                   35                                  40                                  45  
 Arg Pro Asn Ser Ser Arg Arg Ala Lys Val Ser Tyr Gly Arg Gln Leu  
                   50                                  55                                  60  
 Ser Leu Glu Lys Trp Pro Ser Leu Ala Thr Leu Tyr Tyr Arg Cys Ser  
                   65                                  70                                  75                                  80  
 Cys Thr Lys Pro Ser Gly His His Met Ser Trp Leu Ala Ala Leu Ser  
                                   85                                  90                                  95  
 Leu Cys Leu Ser Ser Gly Gly Cys Ile Ser Glu Arg Cys Arg Ser Ala  
                                   100                                  105                                  110  
 Ile Thr Gln Cys Ser Gln Pro Arg Met Glu Asp Leu Tyr Phe Trp Pro  
                   115                                  120                                  125  
 Ser

<210> 3333

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3333

Met Pro Cys Thr Pro Pro Pro Pro Pro Pro His Ile Arg Leu Ala  
           1                                  5                                  10                                  15  
 Ala Gly Ser Leu Glu Ala Ala Arg Leu Thr Pro Pro Arg Gly Pro Gly  
                                   20                                  25                                  30  
 Pro Met Ala Gly Ile Arg Ser Arg Pro Pro Ala Cys Thr Ser Glu Gln  
                   35                                  40                                  45  
 Arg Gln Ala Gln Leu Ala Ala Thr His Pro Pro Leu Ala Ala Gly Arg

50                      55                      60  
 Pro Cys Ser Val Ser Trp Ser Phe Pro Arg Pro Cys Gly Pro Leu Thr  
 65                      70                      75                      80  
 Ala Pro Leu Leu Cys Leu His Arg Ser Leu Arg Ala Leu Leu Leu Ala  
                     85                      90                      95  
 Ser Ala Pro His Thr Ser Ala Ala Ala Trp Cys Arg Thr Leu Gly Arg  
                     100                      105                      110  
 Tyr Pro Pro Pro  
                     115

<210> 3334

<211> 168

<212> PRT

<213> Homo sapiens

<400> 3334

Met Ala Asn Arg Asp Ser Ala Ser Pro His Ser Pro Pro Arg Arg Arg  
 1                      5                      10                      15  
 Arg Cys Leu Gly Gly Pro Thr Val Leu Pro Leu Arg Lys Ile His Ala  
                     20                      25                      30  
 Gly Cys Tyr Gly Pro Gln Pro Pro His Arg His Pro Arg Pro Leu His  
                     35                      40                      45  
 Thr Val Ser Leu Pro Ser Pro Asn Thr Leu Leu Pro Gln Pro Gly Asp  
                     50                      55                      60  
 Pro Trp Met Glu Asp Trp Ala Ser Gln Ser Gly Arg Gln Asp Gln Arg  
 65                      70                      75                      80  
 Val Cys Glu His Thr Cys Val Pro Ala Asp Met Pro Gln Asp Pro Arg  
                     85                      90                      95

Asp Ala Pro Ala Pro Val Thr Trp Cys Gln Ser Tyr Leu Gly Asn Trp  
                   100                  105                  110  
 Pro Phe Trp Phe Arg Val Asn Trp Glu Val Lys Pro Leu Gly Phe Val  
                   115                  120                  125  
 Glu Lys Arg Thr Val Arg Glu Met Leu Cys His Leu Val Arg Lys Thr  
                   130                  135                  140  
 Phe Phe Leu Ser Ser Lys Ile Met Met Gly Phe Phe Trp Ile Cys Phe  
 145                  150                  155                  160  
 Thr Asn Lys Ser Asp Trp Ser Ile  
                   165

<210> 3335

<211> 343

<212> PRT

<213> Homo sapiens

<400> 3335

Met Val Thr Gly Arg Arg Glu Asp Val Ala Thr Ala Arg Arg Glu Ile  
           1                  5                  10                  15  
 Ile Ser Ala Ala Glu His Phe Ser Met Ile Arg Ala Ser Arg Asn Lys  
                   20                  25                  30  
 Ser Gly Ala Ala Phe Gly Val Ala Pro Ala Leu Pro Gly Gln Val Thr  
                   35                  40                  45  
 Ile Arg Val Arg Val Pro Tyr Arg Val Val Gly Leu Val Val Gly Pro  
                   50                  55                  60  
 Lys Gly Ala Thr Ile Lys Arg Ile Gln Gln Gln Thr Asn Thr Tyr Ile  
                   65                  70                  75                  80  
 Ile Thr Pro Ser Arg Asp Arg Asp Pro Val Phe Glu Ile Thr Gly Ala

	85		90		95
Pro Gly Asn Val Glu Arg Ala Arg Glu Glu Ile Glu Thr His Ile Ala					
	100		105		110
Val Arg Thr Gly Lys Ile Leu Glu Tyr Asn Asn Glu Asn Asp Phe Leu					
	115		120		125
Ala Gly Ser Pro Asp Ala Ala Ile Asp Ser Arg Tyr Ser Asp Ala Trp					
	130		135		140
Arg Val His Gln Pro Gly Cys Lys Pro Leu Ser Thr Phe Arg Gln Asn					
	145		150		155
					160
Ser Leu Gly Cys Ile Gly Glu Cys Gly Val Asp Ser Gly Phe Glu Ala					
	165		170		175
Pro Arg Leu Gly Glu Gln Gly Gly Asp Phe Gly Tyr Gly Gly Tyr Leu					
	180		185		190
Phe Pro Gly Tyr Gly Val Gly Lys Gln Asp Val Tyr Tyr Gly Val Ala					
	195		200		205
Glu Thr Ser Pro Pro Leu Trp Ala Gly Gln Glu Asn Ala Thr Pro Thr					
	210		215		220
Ser Val Leu Phe Ser Ser Ala Ser Ser Ser Ser Ser Ser Ser Ala Lys					
	225		230		235
					240
Ala Arg Ala Gly Pro Pro Gly Ala His Arg Ser Pro Ala Thr Ser Ala					
	245		250		255
Gly Pro Glu Leu Ala Gly Leu Pro Arg Arg Pro Pro Gly Glu Pro Leu					
	260		265		270
Gln Gly Phe Ser Lys Leu Gly Gly Gly Gly Leu Arg Ser Pro Gly Gly					
	275		280		285
Gly Arg Asp Cys Met Val Cys Phe Glu Ser Glu Val Thr Ala Ala Leu					
	290		295		300
Val Pro Cys Gly His Asn Leu Phe Cys Met Glu Cys Ala Val Arg Ile					
	305		310		315
					320

Cys Glu Arg Thr Asp Pro Glu Cys Pro Val Cys His Ile Thr Ala Thr  
 325 330 335

Gln Ala Ile Arg Ile Phe Ser  
 340

<210> 3336

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3336

Met Asp Ala Ala Val Thr Asp Asp Phe Gln Gln Ile Leu Pro Ile Glu  
 1 5 10 15  
 Gln Leu Arg Ser Thr His Ala Ser Asn Asp Tyr Val Glu Arg Pro Pro  
 20 25 30  
 Ala Pro Cys Lys Gln Ala Leu Ser Ser Pro Ser Leu Ile Val Gln Thr  
 35 40 45  
 His Lys Ser Asp Trp Ser Leu Ala Thr Met Pro Thr Ser Leu Pro Arg  
 50 55 60  
 Ser Leu Ser Gln Cys His Gln Leu Gln Pro Leu Pro Gln His Leu Ser  
 65 70 75 80  
 Gln Ser Ser Ile Ala Ser Ser Met Ser His Ser Thr Thr Ala Ser Ser  
 85 90 95  
 Thr Thr Ala Pro Leu Met Met Lys Thr Thr Val Leu Met Ser Pro Ala  
 100 105 110  
 Leu Val Gly Leu Val Leu Ala Leu Ser Ala Gly Gln Pro  
 115 120 125

&lt;210&gt; 3337

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3337

Met Cys Val Tyr Thr Tyr Ile Cys Glu Tyr Arg Cys Ile Tyr Val Cys

1

5

10

15

Ile Tyr Ile His Val Phe Val Tyr Val Cys Tyr Ile Tyr Leu Tyr Val

20

25

30

Tyr Val Cys Val Ile Tyr Ile His Val Cys Val Cys Val Cys Val Leu

35

40

45

Tyr Ile His Val Cys Val Tyr Val Cys Val Tyr Ala Leu Arg Arg Gln

50

55

60

Asn Cys Pro Glu Glu Gly Trp Tyr Leu Gly Phe Pro Ser Pro Ser Leu

65

70

75

80

Cys His Leu Val Pro Asn Arg Ala Asn Gly Pro Ser Leu Gln Thr Glu

85

90

95

Ala Glu Ser Pro Gly Leu Gly Arg Gly Asp Arg Gly Thr Gly Gln Pro

100

105

110

Gln Trp Gly Thr Gly Asp Pro Gly Leu His Pro Asn Thr Gly Thr Arg

115

120

125

Asp Arg Cys His Glu Leu Leu Leu Leu Glu Pro Ser Ala Gln Gly Ser

130

135

140

Gly Leu Tyr Pro

145

&lt;210&gt; 3338

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3338

Met Asn Ala Val Gly Cys Cys Gly Leu Gln Leu Tyr Lys Phe Gly Glu

1 5 10 15

Thr Val Ser Ile Val Phe Trp Thr Asp Thr Trp Arg Pro Glu Ser Phe

20 25 30

Phe Asp Lys Val Lys Lys Asn Arg Gln Asn Gly Met His Thr Leu Cys

35 40 45

Leu Leu Asp Ile Lys Val Lys Glu Gln Ser Leu Glu Asn Leu Ile Lys

50 55 60

Gly Arg Lys Ile Tyr Glu Pro Pro Arg Tyr Met Ser Val Asn Gln Ala

65 70 75 80

Ala Gln Gln Leu Leu Glu Ile Val Gln Asn Gln Arg Ile Arg Gly Glu

85 90 95

Glu Pro Ala Val Thr Glu Glu Thr Leu Cys Val Gly Leu Ala Arg Val

100 105 110

Gly Ala Asp Asp Gln Lys Ile Ala Ala Gly Thr Leu Arg Gln Met Cys

115 120 125

Thr Val Asp Leu Gly Glu Pro Leu His Ser Leu Ile Ile Thr Gly Gly

130 135 140

Ser Ile His Pro Met Glu Met Glu Met Leu Ser Leu Phe Ser Ile Pro

145 150 155 160

Glu Asn Ser Ser Glu Ser Gln Ser Ile Asn Gly Leu

165 170

&lt;210&gt; 3339

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3339

Met His Leu Thr Ser Pro Pro Val Leu Arg Thr Pro Cys Cys Ser Gly

1 5 10 15

His Arg Val Ser Gln Gln Trp His Ile Asp Thr Trp Ala Arg Glu Phe

20 25 30

Phe Ala Ala Gly Gly Gly Gly Gly Pro Val Cys Cys Arg Leu Leu Cys

35 40 45

Gly Ser Phe Ser Leu Cys Pro Leu Ile Glu Ala Pro Leu Pro Trp Leu

50 55 60

Gln Pro Lys Met Ser Pro Asp Ile Ala Lys Cys Pro Gly Ala Gly Ala

65 70 75 80

Arg Gly Thr Met Ser Pro Leu Thr His Leu Glu Asn His Cys Tyr Lys

85 90 95

Arg Thr Gly Thr Ala Lys Glu Ala Ile Ile Ser Arg Lys Ser Cys Cys

100 105 110

Arg Phe Ser Leu Asn Lys Gly Val Ser Ile Leu Arg Asn Pro Pro Lys

115 120 125

Asp Cys Trp Pro Ser Leu Ser

130 135

&lt;210&gt; 3340

&lt;211&gt; 477

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3340

Met Phe Ser Ile Thr Leu Ile Asn His Phe Asp Leu Ser Ile Leu Ile  
1 5 10 15  
Thr Thr Met Val Leu Val Pro Ser Tyr Thr Leu Leu Gly Phe Lys Thr  
20 25 30  
Phe Leu Glu Val Arg Asp Gln Glu His Tyr Arg Glu Phe Pro Glu Ala  
35 40 45  
Asn Phe Glu Leu Ser Ala Thr Asp Phe Leu Val Cys Phe Ile Pro Tyr  
50 55 60  
Phe Gln Thr Leu Leu Phe Val Phe Val Leu Arg Cys Met Glu Leu Lys  
65 70 75 80  
Cys Gly Lys Lys Arg Met Arg Lys Asp Pro Val Phe Arg Ile Ser Pro  
85 90 95  
Gln Ser Arg Asp Ala Lys Pro Asn Pro Glu Glu Pro Ile Asp Glu Asp  
100 105 110  
Glu Asp Ile Gln Thr Glu Arg Ile Arg Thr Ala Thr Ala Leu Thr Thr  
115 120 125  
Ser Ile Leu Asp Glu Lys Pro Val Ile Ile Ala Ser Cys Leu His Lys  
130 135 140  
Glu Tyr Ala Gly Gln Lys Lys Ser Cys Phe Ser Lys Arg Lys Lys Lys  
145 150 155 160  
Ile Ala Ala Arg Asn Ile Ser Phe Cys Val Gln Glu Gly Glu Ile Leu  
165 170 175  
Gly Leu Leu Gly Pro Asn Gly Ala Gly Lys Ser Ser Ser Ile Arg Met  
180 185 190  
Ile Ser Gly Ile Thr Lys Pro Thr Ala Gly Glu Val Glu Leu Lys Gly

195	200	205
Cys Ser Ser Val Leu Gly His Leu Gly Tyr Cys Pro Gln Glu Asn Val		
210	215	220
Leu Trp Pro Met Leu Thr Leu Arg Glu His Leu Glu Val Tyr Ala Ala		
225	230	235
Val Lys Gly Leu Arg Lys Ala Asp Ala Arg Leu Ala Ile Ala Arg Leu		
245	250	255
Val Ser Ala Phe Lys Leu His Glu Gln Leu Asn Val Pro Val Gln Lys		
260	265	270
Leu Thr Ala Gly Ile Thr Arg Lys Leu Cys Phe Val Leu Ser Leu Leu		
275	280	285
Gly Asn Ser Pro Val Leu Leu Leu Asp Glu Pro Ser Thr Gly Ile Asp		
290	295	300
Pro Thr Gly Gln Gln Gln Met Trp Gln Ala Ile Gln Ala Val Val Lys		
305	310	315
Asn Thr Glu Arg Gly Val Leu Leu Thr Thr His Asn Leu Ala Glu Ala		
325	330	335
Glu Ala Leu Cys Asp Arg Val Ala Ile Met Val Ser Gly Arg Leu Arg		
340	345	350
Cys Ile Gly Ser Ile Gln His Leu Lys Asn Lys Leu Gly Lys Asp Tyr		
355	360	365
Ile Leu Glu Leu Lys Val Lys Glu Thr Ser Gln Val Thr Leu Val His		
370	375	380
Thr Glu Ile Leu Lys Leu Phe Pro Gln Ala Ala Gly Gln Glu Arg Tyr		
385	390	395
Ser Ser Leu Leu Thr Tyr Lys Leu Pro Val Ala Asp Val Tyr Pro Leu		
405	410	415
Ser Gln Thr Phe His Lys Leu Glu Ala Val Lys His Asn Phe Asn Leu		
420	425	430

Gly Glu Tyr Ser Leu Ser Gln Cys Thr Leu Glu Lys Val Phe Leu Glu

435

440

445

Leu Ser Lys Glu Gln Glu Val Gly Asn Phe Asp Glu Glu Ile Asp Thr

450

455

460

Thr Met Arg Trp Lys Leu Leu Pro His Ser Asp Glu Pro

465

470

475

<210> 3341

<211> 181

<212> PRT

<213> Homo sapiens

<400> 3341

Met Gly Asn Pro Ile Leu Gln Gln His Tyr Ile Arg Glu Ala Thr Met

1

5

10

15

Glu Gln Gly Thr Arg Pro Lys Lys Pro Pro Cys Ala Tyr Ser Thr Val

20

25

30

His Arg Val Pro Ser Ala Pro Glu Gly Pro Cys Pro Pro Thr Ser Thr

35

40

45

Ala Pro Ser Ser Gly Pro Pro Arg Ala Leu Gly Arg Phe Leu Cys Gln

50

55

60

Thr Ser Pro Ala Thr His Ser Ser Gly Ser Arg Ala Pro Pro Pro Gln

65

70

75

80

Gln Gln Ser Ser Arg Asp Leu Pro Gln Gly Arg Ser Pro Ala Pro Gly

85

90

95

Trp Lys Ala Ala Glu Leu Trp Arg Arg Gly Thr Gln Arg Thr Ala Gly

100

105

110

Arg Ala Cys Pro Arg Leu Pro Ala Arg Pro Glu Gly Ser Ala Arg Ser

115                      120                      125  
 Lys Asn Gln Lys Ser Ser Met Arg Ser Pro Ala Gly Arg Arg Gly Val  
 130                      135                      140  
 Ala Gln Pro Val Leu Ile Leu Ser Trp Arg Lys Pro Ser Gly Arg Val  
 145                      150                      155                      160  
 Leu Gly Arg Thr Arg Leu Pro Pro Arg Leu Leu Ser Ala Ala Cys Pro  
 165                      170                      175  
 Ala Arg Thr Ser Val  
 180

<210> 3342

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3342

Met Glu Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser  
 1                      5                      10                      15  
 Ser Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Met  
 20                      25                      30  
 Ser His Cys Ala Trp Thr Ile Phe Thr Phe Phe Phe Glu Thr Glu Ser  
 35                      40                      45  
 Cys Ser Val Thr Gln Thr Glu Val Gln Trp Arg Arg Leu Gly Ser Leu  
 50                      55                      60  
 Gln Ala Pro Leu Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu Pro  
 65                      70                      75                      80  
 Asn Ser Trp Asp Tyr Arg Arg Pro Pro Pro Phe Leu Ala Asn Phe Phe  
 85                      90                      95

Val Phe Leu Val Ala Met Gly Phe His His Val Ser Gln Asp Gly Leu  
 100 105 110  
 Asp Ile Leu Thr Ser  
 115

<210> 3343

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3343

Met Cys His His Ala Trp Leu Ile Phe Ile Phe Leu Val Glu Thr Gly  
 1 5 10 15  
 Phe His His Val Val Gln Ala Gly Leu Lys Leu Leu Thr Ser Gly Asp  
 20 25 30  
 Leu Pro Thr Ser Ala Ser Gln Gly Ala Gly Ile Thr Gly Met Ser His  
 35 40 45  
 His Ala Trp Pro Phe Leu Thr Leu Leu Tyr Asp Met Pro Ile Ala Ser  
 50 55 60  
 Leu Arg Ala Ser Val Pro Cys Tyr Phe Thr Leu Gly Phe Arg Trp Arg  
 65 70 75 80  
 Glu Gln Leu Leu Phe Gly Thr Leu Ala Ile Ala Trp Gln Met Gly Ile  
 85 90 95  
 Cys His Phe Cys Ser Tyr Leu Val Gly Ser Thr Ile Thr Phe Arg Ala  
 100 105 110  
 Asn Pro Ala Ala Lys Pro Gly Ile Asn Arg Ala Glu Lys Tyr Ile Leu  
 115 120 125

&lt;210&gt; 3344

&lt;211&gt; 752

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3344

Met Glu Thr Val Val Ala Gly Gly Ser Gly Gly Asp Gly Glu Glu Glu

1 5 10 15

Glu Glu Ala Leu Pro Glu Gln Ser Glu Gly Lys Glu Gln Lys Ile Leu

20 25 30

Leu Asp Thr Ala Cys Lys Met Val Arg Trp Leu Ser Ala Lys Leu Gly

35 40 45

Pro Thr Val Ala Ser Arg His Val Ala Arg Asn Leu Leu Arg Leu Leu

50 55 60

Thr Ser Cys Tyr Val Gly Pro Thr Arg Gln Gln Phe Thr Val Ser Ser

65 70 75 80

Gly Glu Ser Pro Pro Leu Ser Ala Gly Asn Ile Tyr Gln Lys Arg Pro

85 90 95

Val Leu Gly Asp Ile Val Ser Gly Pro Val Leu Ser Cys Leu Leu His

100 105 110

Ile Ala Arg Leu Tyr Gly Glu Pro Val Leu Thr Tyr Gln Tyr Leu Pro

115 120 125

Tyr Ile Ser Tyr Leu Val Ala Pro Gly Ser Ala Ser Gly Pro Ser Arg

130 135 140

Leu Asn Ser Arg Lys Glu Ala Gly Leu Leu Ala Ala Val Thr Leu Thr

145 150 155 160

Gln Lys Ile Ile Val Tyr Leu Ser Asp Thr Thr Leu Met Asp Ile Leu

165 170 175

Pro Arg Ile Ser His Glu Val Leu Leu Pro Val Leu Ser Phe Leu Thr  
 180 185 190  
 Ser Leu Val Thr Gly Phe Pro Ser Gly Ala Gln Ala Arg Thr Ile Leu  
 195 200 205  
 Cys Val Lys Thr Ile Ser Leu Ile Ala Leu Ile Cys Leu Arg Ile Gly  
 210 215 220  
 Gln Glu Met Val Gln Gln His Leu Ser Glu Pro Val Ala Thr Phe Phe  
 225 230 235 240  
 Gln Val Phe Ser Gln Leu His Glu Leu Arg Gln Gln Asp Leu Lys Leu  
 245 250 255  
 Asp Pro Ala Gly Arg Gly Glu Gly Gln Leu Pro Gln Val Val Phe Ser  
 260 265 270  
 Asp Gly Gln Gln Arg Pro Val Asp Pro Ala Leu Leu Asp Glu Leu Gln  
 275 280 285  
 Lys Val Phe Thr Leu Glu Met Ala Tyr Thr Ile Tyr Val Pro Phe Ser  
 290 295 300  
 Cys Leu Leu Gly Asp Ile Ile Arg Lys Ile Ile Pro Asn His Glu Leu  
 305 310 315 320  
 Val Gly Glu Leu Ala Ala Leu Tyr Leu Glu Ser Ile Ser Pro Ser Ser  
 325 330 335  
 Arg Asn Pro Ala Ser Val Glu Pro Thr Met Pro Gly Thr Gly Pro Glu  
 340 345 350  
 Trp Asp Pro His Gly Gly Gly Cys Pro Gln Asp Asp Gly His Ser Gly  
 355 360 365  
 Thr Phe Gly Ser Val Leu Val Gly Asn Arg Ile Gln Ile Pro Asn Gly  
 370 375 380  
 Ser Arg Pro Glu Asn Pro Gly Pro Leu Gly Pro Ile Ser Gly Val Gly  
 385 390 395 400  
 Gly Gly Gly Leu Gly Ser Gly Ser Asp Asp Asn Ala Leu Lys Gln Glu

405	410	415
Leu Pro Arg Ser Val His Gly	Leu Ser Gly Asn Trp	Leu Ala Tyr Trp
420	425	430
Gln Tyr Glu Ile Gly Val Ser Gln Gln Asp	Ala His Phe His Phe His	
435	440	445
Gln Ile Arg Leu Gln Ser Phe Pro Gly His Ser Gly	Ala Val Lys Cys	
450	455	460
Val Ala Pro Leu Ser Ser Glu Asp Phe Phe Leu Ser Gly	Ser Lys Asp	
465	470	475
Arg Thr Val Arg Leu Trp Pro Leu Tyr Asn Tyr Gly	Asp Gly Thr Ser	
485	490	495
Glu Thr Ala Pro Arg Leu Val Tyr Thr Gln His Arg Lys Ser	Val Phe	
500	505	510
Phe Val Gly Gln Leu Glu Ala Pro Gln His Val Val Ser Cys	Asp Gly	
515	520	525
Ala Val His Val Trp Asp Pro Phe Thr Gly Lys Thr Leu Arg	Thr Val	
530	535	540
Glu Pro Leu Asp Ser Arg Val Pro Leu Thr Ala Val Ala Val Met	Pro	
545	550	555
Ala Pro His Thr Ser Ile Thr Met Ala Ser Ser Asp Ser Thr Leu Arg		
565	570	575
Phe Val Asp Cys Arg Lys Pro Gly Leu Gln His Glu Phe Arg Leu Gly		
580	585	590
Gly Gly Leu Asn Pro Gly Leu Val Arg Ala Leu Ala Ile Ser Pro Ser		
595	600	605
Gly Arg Ser Val Val Ala Gly Phe Ser Ser Gly Phe Met Val Leu Leu		
610	615	620
Asp Thr Arg Thr Gly Leu Val Leu Arg Gly Trp Pro Ala His Glu Gly		
625	630	635
		640

Asp Ile Leu Gln Ile Lys Ala Val Glu Gly Ser Val Leu Val Ser Ser  
                     645                    650                    655  
 Ser Ser Asp His Ser Leu Thr Val Trp Lys Glu Leu Glu Gln Lys Pro  
                     660                    665                    670  
 Thr His His Tyr Lys Ser Ala Ser Asp Pro Ile His Thr Phe Asp Leu  
                     675                    680                    685  
 Tyr Gly Ser Glu Val Val Thr Gly Thr Val Ser Asn Lys Ile Gly Val  
                     690                    695                    700  
 Cys Ser Leu Leu Glu Pro Pro Ser Gln Ala Thr Thr Lys Leu Ser Ser  
 705                    710                    715                    720  
 Glu Asn Phe Arg Gly Thr Leu Thr Ser Leu Ala Leu Leu Pro Thr Lys  
                     725                    730                    735  
 Arg His Leu Leu Leu Gly Ser Asp Asn Gly Val Ile Arg Leu Leu Ala  
                     740                    745                    750

<210> 3345

<211> 805

<212> PRT

<213> Homo sapiens

<400> 3345

Met Ala Arg Leu His Glu His Leu Lys Tyr Phe Val Asn Met Lys Ile  
   1                    5                    10                    15  
 Ser Thr Asp Lys Ser Trp Gln Gly Val Thr Ile Tyr Phe Ser Gly His  
                     20                    25                    30  
 Glu Thr Pro Gly Glu Gly Glu His Lys Ile Met Glu Phe Ile Arg Ser  
                     35                    40                    45  
 Glu Lys Ala Lys Pro Asp His Asp Pro Asn Thr Arg His Cys Leu Tyr

50                                      55                                      60  
Gly Leu Asp Ala Asp Leu Ile Met Leu Gly Leu Thr Ser His Glu Ala  
65                                      70                                      75                                      80  
His Phe Ser Leu Leu Arg Glu Glu Val Arg Phe Gly Gly Lys Lys Thr  
85                                      90                                      95  
Gln Arg Val Cys Ala Pro Glu Glu Thr Thr Phe His Leu Leu His Leu  
100                                      105                                      110  
Ser Leu Met Arg Glu Tyr Ile Asp Tyr Glu Phe Ser Val Leu Lys Glu  
115                                      120                                      125  
Lys Ile Thr Phe Lys Tyr Asp Ile Glu Arg Ile Ile Asp Asp Trp Ile  
130                                      135                                      140  
Leu Met Gly Phe Leu Val Gly Asn Asp Phe Ile Pro His Leu Pro His  
145                                      150                                      155                                      160  
Leu His Ile Asn His Asp Ala Leu Pro Leu Leu Tyr Gly Thr Tyr Val  
165                                      170                                      175  
Thr Ile Leu Pro Glu Leu Gly Gly Tyr Ile Asn Glu Ser Gly His Leu  
180                                      185                                      190  
Asn Leu Pro Arg Phe Glu Lys Tyr Leu Val Lys Leu Ser Asp Phe Asp  
195                                      200                                      205  
Arg Glu His Phe Ser Glu Val Phe Val Asp Leu Lys Trp Phe Glu Ser  
210                                      215                                      220  
Lys Val Gly Asn Lys Tyr Leu Asn Glu Ala Ala Gly Val Ala Ala Glu  
225                                      230                                      235                                      240  
Glu Ala Arg Asn Tyr Lys Glu Lys Lys Lys Leu Lys Gly Gln Glu Asn  
245                                      250                                      255  
Ser Leu Cys Trp Thr Ala Leu Asp Lys Asn Glu Gly Glu Met Ile Thr  
260                                      265                                      270  
Ser Lys Asp Asn Leu Glu Asp Glu Thr Glu Asp Asp Asp Leu Phe Glu  
275                                      280                                      285

Thr	Glu	Phe	Arg	Gln	Tyr	Lys	Arg	Thr	Tyr	Tyr	Met	Thr	Lys	Met	Gly
290							295				300				
Val	Asp	Val	Val	Ser	Asp	Asp	Phe	Leu	Ala	Asp	Gln	Ala	Ala	Cys	Tyr
305					310					315				320	
Val	Gln	Ala	Ile	Gln	Trp	Ile	Leu	His	Tyr	Tyr	Tyr	His	Gly	Val	Gln
				325					330				335		
Ser	Trp	Ser	Trp	Tyr	Tyr	Pro	Tyr	His	Tyr	Ala	Pro	Phe	Leu	Ser	Asp
				340				345					350		
Ile	His	Asn	Ile	Ser	Thr	Leu	Lys	Ile	His	Phe	Glu	Leu	Gly	Lys	Pro
		355					360						365		
Phe	Lys	Pro	Phe	Glu	Gln	Leu	Leu	Ala	Val	Leu	Pro	Ala	Ala	Ser	Lys
		370				375						380			
Asn	Leu	Leu	Pro	Ala	Cys	Tyr	Gln	His	Leu	Met	Thr	Asn	Glu	Asp	Ser
385					390					395				400	
Pro	Ile	Ile	Glu	Tyr	Tyr	Pro	Pro	Asp	Phe	Lys	Thr	Asp	Leu	Asn	Gly
			405					410					415		
Lys	Gln	Gln	Glu	Trp	Glu	Ala	Val	Val	Leu	Ile	Pro	Phe	Ile	Asp	Glu
			420					425					430		
Lys	Arg	Leu	Leu	Glu	Ala	Met	Glu	Thr	Cys	Asn	His	Ser	Leu	Lys	Lys
			435					440					445		
Glu	Glu	Arg	Lys	Arg	Asn	Gln	His	Ser	Glu	Cys	Leu	Met	Cys	Trp	Tyr
			450			455						460			
Asp	Arg	Asp	Thr	Glu	Phe	Ile	Tyr	Pro	Ser	Pro	Trp	Pro	Glu	Lys	Phe
465					470					475				480	
Pro	Ala	Ile	Glu	Arg	Cys	Cys	Thr	Arg	Tyr	Lys	Ile	Ile	Ser	Leu	Asp
				485					490				495		
Ala	Trp	Arg	Val	Asp	Ile	Asn	Lys	Asn	Lys	Ile	Thr	Arg	Ile	Asp	Gln
			500					505					510		
Lys	Ala	Leu	Tyr	Phe	Cys	Gly	Phe	Pro	Thr	Leu	Lys	His	Ile	Arg	His

515	520	525
Lys Phe Phe Leu Lys Lys Ser Gly Val Gln Val Phe Gln Gln Ser Ser		
530	535	540
Arg Gly Glu Asn Met Met Leu Glu Ile Leu Val Asp Ala Glu Ser Asp		
545	550	555
Glu Leu Thr Val Glu Asn Val Ala Ser Ser Val Leu Gly Lys Ser Val		
565	570	575
Phe Val Asn Trp Pro His Leu Glu Glu Ala Arg Val Val Ala Val Ser		
580	585	590
Asp Gly Glu Thr Lys Phe Tyr Leu Glu Glu Pro Pro Gly Thr Gln Lys		
595	600	605
Leu Tyr Ser Gly Arg Thr Ala Pro Pro Ser Lys Val Val His Leu Gly		
610	615	620
Asp Lys Glu Gln Ser Asn Trp Ala Lys Glu Val Gln Gly Ile Ser Glu		
625	630	635
His Tyr Leu Arg Arg Lys Gly Ile Ile Ile Asn Glu Thr Ser Ala Val		
645	650	655
Val Tyr Ala Gln Leu Leu Thr Gly Arg Lys Tyr Gln Ile Asn Gln Asn		
660	665	670
Gly Glu Val Arg Leu Glu Lys Gln Trp Ser Lys Gln Val Val Pro Phe		
675	680	685
Val Tyr Gln Thr Ile Val Lys Asp Ile Arg Ala Phe Asp Ser Arg Phe		
690	695	700
Ser Asn Ile Lys Thr Leu Asp Asp Leu Phe Pro Leu Arg Ser Met Val		
705	710	715
Phe Met Leu Gly Thr Pro Tyr Tyr Gly Cys Thr Gly Glu Val Gln Asp		
725	730	735
Ser Gly Asp Val Ile Thr Glu Gly Arg Ile Arg Val Ile Phe Ser Ile		
740	745	750

Pro Cys Glu Pro Asn Leu Asp Ala Leu Ile Gln Asn Gln His Lys Tyr  
                     755                    760                    765  
 Ser Ile Lys Tyr Asn Pro Gly Tyr Val Leu Ala Ser Arg Leu Gly Val  
                     770                    775                    780  
 Ser Gly Tyr Leu Val Ser Arg Phe Thr Gly Ser Ile Phe Ile Gly Arg  
 785                    790                    795                    800  
 Gly Ser Arg Arg Lys  
                     805

<210> 3346

<211> 108

<212> PRT

<213> Homo sapiens

<400> 3346

Met Tyr Val Val Phe Tyr Ala Asp Arg Ile Ile Gln Lys Asn Ala Leu  
                     1                    5                    10                    15  
 Lys Ser Phe Ala Leu Val Ala Gln Ala Gly Val Gln Trp Cys Asp Pro  
                     20                    25                    30  
 Gly Ser Leu Gln Pro Leu Pro Pro Gly Leu Lys Arg Phe Ser Cys Leu  
                     35                    40                    45  
 Ser Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ile Pro Trp Glu His Pro  
                     50                    55                    60  
 Pro Ala Glu Ile Cys Thr Ser Ala Thr Ile Leu Ser Gly Arg Arg Lys  
                     65                    70                    75                    80  
 Gly Lys Gly Ser Ala Ala Ser Leu Ala Thr Ala Cys Ile Ile Ser Ser  
                     85                    90                    95  
 Gln Arg Arg Ser Thr Gly Ser Gly Ser Phe Arg Ala

100

105

&lt;210&gt; 3347

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3347

Met Pro Val Ile Pro Ala Thr Arg Glu Ala Glu Ala Arg Glu Ser Leu

1

5

10

15

Asp Ser Lys His Ser Phe Ile His Ile Pro Ile His Pro Tyr Thr Tyr

20

25

30

Ser Ser Asn Ser Cys Ser Ser Lys His Pro Ser Ile His Pro Ser Ile

35

40

45

His Pro Ser Ile His Pro Ser Ile Tyr Thr Ser Ile Tyr Pro Phe Met

50

55

60

His Leu Tyr Ile Tyr Leu Leu Ile Lys Phe Leu Ser Ile His Pro Ser

65

70

75

80

Thr Tyr Leu Ser Asn Phe Cys Ser Ser Lys His Pro Pro Ile His Leu

85

90

95

Ser Thr His Pro Ser Ile His Ala Cys Met His Pro Ser Ile His Thr

100

105

110

Tyr Ile His Ser Leu Ile Arg Leu Tyr Thr His Pro Ser Met Tyr Leu

115

120

125

Phe Ile

130

&lt;210&gt; 3348

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3348

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Met Ser Lys Leu Ala Val Leu Thr Arg Thr Leu Glu Gly Met Ala Met
  1             5             10             15
Glu His Arg Leu Glu Met Val Arg Phe Ile Phe Thr Ser Pro Ala Pro
             20             25             30
Leu Asp Lys Val Leu Gly Met Val Arg Ala Tyr Lys Glu Thr Gln Thr
             35             40             45
Ala Ile Asn Ile Ser Leu Tyr Asp Ala Met Pro Trp Arg Pro Asn Pro
             50             55             60
Pro Leu Leu Phe Phe Phe Phe Phe Leu Thr Gly Ser His Phe Val Thr
             65             70             75             80
Gln Ala Gly Val Glu Trp Gly Asp Leu Gly Ser Leu Gln Pro Pro Gln
             85             90             95
Pro Pro Gly Leu Lys Pro Ser Ser Cys Leu Ser Pro Pro Ser Ser Trp
             100            105            110
Asp Tyr Arg His Ala Pro Ser Cys Leu Ala Ser Phe Phe Phe Phe Phe
             115            120            125
Glu Thr Glu Ser Cys Ser Leu Pro Gln Ala Arg Val Gln Trp His Asp
             130            135            140
Leu Gly Ser Leu Gln Ala Pro Pro Pro
             145            150

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&lt;210&gt; 3349

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3349

Met Glu Ile Asp Gly Phe Gln Gln Leu Asp Leu Glu Lys Ser Val Pro

1 5 10 15

Ser Lys Lys Thr Thr Pro Lys Arg Ile Ile His Phe Val Asp Gly Asp

20 25 30

Ile Met Glu Glu Tyr Ser Thr Glu Glu Glu Glu Glu Glu Lys Glu

35 40 45

Glu Gln Ser Thr Asn Ser Thr Leu Asp Pro Ser Lys Leu Ser Trp Gly

50 55 60

Pro Tyr Leu Arg Phe Trp Ala Gly Arg Ile Ala Ser Thr Ser Phe Ser

65 70 75 80

Met Leu Ser Leu Gln Ala Thr Leu Leu Leu Lys Ala Glu Lys Glu Gly

85 90 95

Leu Lys Gln Leu Leu Arg Ser Leu Ser Gly Cys Met Glu Glu Phe Leu

100 105 110

Met Trp Val Leu Val Thr Leu Asp

115 120

&lt;210&gt; 3350

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3350

Met Glu Thr Leu Val Val Trp Lys Ile Gln Glu Thr Ser Ile Leu Thr  
 1 5 10 15  
 Ile Ile Lys Ile His Met Gly Cys Ala Gln Trp Leu Ser Pro Val Ile  
 20 25 30  
 Pro Ala Phe Trp Glu Ala Gly Val Gly Gly Leu Leu Glu Ala Arg Tyr  
 35 40 45  
 Ser Arg Pro Ala Trp Gln Pro Gly Glu Ile Pro Cys Ile Gln Lys Ile  
 50 55 60  
 Glu Lys Leu Ala Arg Asp Asp Gly Val Arg Leu Trp Ser Gln Leu Leu  
 65 70 75 80  
 Gly Arg Leu Arg Trp Glu Asp Cys Leu Ser Leu Gly Gly Arg Gly Cys  
 85 90 95  
 Ser Glu Trp Arg Leu Arg His Trp Thr Pro Ala Trp Ala Thr Val Arg  
 100 105 110  
 Pro Cys Leu Lys Lys Leu Ile Met  
 115 120

&lt;210&gt; 3351

&lt;211&gt; 862

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3351

Met Trp Gln Leu Leu Pro Val Glu Gln Asp Thr Ser Asn Val Thr Glu  
 1 5 10 15  
 Met Lys Val Ser Glu Lys Ser His Asn Ala Phe Lys Ala Thr Asn Lys  
 20 25 30  
 Lys Arg Glu Thr Asp Val His Leu Lys Ser Gln Asp Phe Leu Met Lys

35	40	45
Thr Asn Thr Ser Thr Gly Leu Lys Met Ala Met Glu Arg Ser Leu Asn		
50	55	60
Pro Ile Asn Phe Asn Pro Glu Asn Asn Val Lys Glu Ser Glu Cys Pro		
65	70	75
Leu Pro Pro Pro Ser Pro Pro Pro Pro Pro Pro Ser Asn Ala Ser Ser		
85	90	95
Glu Ile Glu Phe Pro Leu Pro Pro Pro Pro Pro Leu Met Met Phe Pro		
100	105	110
Glu Lys Asn Gly Phe Leu Pro Ser Leu Ser Thr Glu Lys Ile Lys Ala		
115	120	125
Glu Phe Glu Ser Phe Pro Gly Leu Pro Leu Pro Pro Pro Pro Val Asp		
130	135	140
Glu Lys Ser Glu Arg Glu Ser Ser Ser Met Phe Leu Pro Pro Pro Pro		
145	150	155
Pro Pro Thr Pro Ser Gln Lys Pro Ala His Leu Leu Ser Ser Ser Ala		
165	170	175
Pro Glu Lys His Ser Gly Asp Phe Met Gln Gln Tyr Ser Gln Lys Glu		
180	185	190
Ala Ser Asn Ser Gln Asn Ser Gln Ala Lys Ile Ile Thr Gly Lys Thr		
195	200	205
Gly Val Leu Pro Pro Pro Thr Leu Pro Lys Pro Lys Leu Pro Lys His		
210	215	220
Ile Lys Asp Asn Lys Asn Asp Phe Ser Pro Lys Val Glu Leu Ala Thr		
225	230	235
Ser Leu Ser Asp Met Glu Cys Lys Ile Thr Thr Ser Lys Asp Gln Lys		
245	250	255
Lys Val Met Val Met Thr Ser Ser Glu His Thr Glu Thr Lys Gln Asn		
260	265	270

Val Ile Ser Lys Ser Leu Asp Glu Arg Lys Gln Leu Ser Ile Asp Ser  
275 280 285

Ala Asn Cys Leu Ser His Thr Val Pro Gly Thr Ser Ala Pro Arg Lys  
290 295 300

Lys Gln Ile Ala Pro Leu Ile Lys Ser His Ser Phe Pro Glu Ser Ser  
305 310 315 320

Gly Gln Gln Asn Pro Lys Pro Tyr Met Arg Lys Phe Lys Thr Pro Leu  
325 330 335

Met Ile Ala Glu Glu Lys Tyr Arg Gln Gln Lys Glu Glu Ile Glu Lys  
340 345 350

Gln Lys Gln Glu Ser Ser Tyr Tyr Asn Ile Val Lys Thr Gln Ser Gln  
355 360 365

Asn Gln His Ile Thr Glu Val Glu Lys Glu Met Pro Leu Gln Lys Thr  
370 375 380

Asn Glu Glu Val Ser Leu Ser Gly Ile Asp Ser Glu Cys Thr Val Val  
385 390 395 400

Gln Pro Ser Pro Gly Ser Gln Ser Asn Ala Arg Ile Leu Gly Val Cys  
405 410 415

Ser Asp Asn Gln Leu Ser Thr Thr Ser Pro Glu Thr Val Ala Ala Lys  
420 425 430

Arg Leu His His Val Leu Ala Ala Ser Glu Asp Lys Asp Lys Met Lys  
435 440 445

Lys Glu Val Leu Gln Ser Ser Arg Asp Ile Met Gln Ser Lys Ser Ala  
450 455 460

Cys Glu Ile Lys Gln Ser His Gln Glu Cys Ser Thr Gln Gln Thr Gln  
465 470 475 480

Gln Lys Lys Tyr Leu Glu Gln Leu His Leu Pro Gln Ser Lys Pro Ile  
485 490 495

Ser Pro Asn Phe Lys Val Lys Thr Ile Lys Leu Pro Thr Leu Asp His

500 505 510  
Thr Leu Asn Glu Thr Asp His Ser Tyr Glu Ser His Lys Gln Gln Ser  
515 520 525  
Glu Ile Asp Val Gln Thr Phe Thr Lys Lys Gln Tyr Leu Lys Thr Lys  
530 535 540  
Lys Thr Glu Ala Ser Thr Glu Cys Ser His Lys Gln Ser Leu Ala Glu  
545 550 555 560  
Arg His Tyr Gln Leu Pro Lys Lys Glu Lys Arg Val Thr Val Gln Leu  
565 570 575  
Pro Thr Glu Ser Ile Gln Lys Asn Gln Glu Asp Lys Leu Lys Met Val  
580 585 590  
Pro Arg Lys Gln Arg Glu Phe Ser Gly Ser Asp Arg Gly Lys Leu Pro  
595 600 605  
Gly Ser Glu Glu Lys Asn Gln Gly Pro Ser Met Ile Gly Arg Lys Glu  
610 615 620  
Glu Arg Leu Ile Thr Glu Arg Lys His Glu His Leu Lys Asn Lys Ser  
625 630 635 640  
Ala Pro Lys Val Val Lys Gln Lys Val Ile Asp Ala His Leu Asp Ser  
645 650 655  
Gln Thr Gln Asn Phe Gln Gln Thr Gln Ile Gln Thr Ala Glu Ser Lys  
660 665 670  
Ala Glu His Lys Lys Leu Pro Gln Pro Tyr Asn Ser Leu Gln Glu Glu  
675 680 685  
Lys Cys Leu Glu Val Lys Gly Ile Gln Glu Lys Gln Val Phe Ser Asn  
690 695 700  
Thr Lys Asp Ser Lys Gln Glu Ile Thr Gln Asn Lys Ser Phe Phe Ser  
705 710 715 720  
Ser Val Lys Glu Ser Gln Arg Asp Asp Gly Lys Gly Ala Leu Asn Ile  
725 730 735

Val Glu Phe Leu Arg Lys Arg Glu Glu Leu Gln Gln Ile Leu Ser Arg  
 740 745 750  
 Val Lys Gln Phe Glu Ala Glu Pro Asn Lys Ser Gly Leu Lys Thr Phe  
 755 760 765  
 Gln Thr Leu Leu Asn Thr Ile Pro Gly Trp Leu Ile Ser Glu Asp Lys  
 770 775 780  
 Arg Glu Tyr Ala Val His Ile Ala Met Glu Asn Asn Leu Glu Lys Val  
 785 790 795 800  
 Lys Glu Glu Ile Thr His Ile Lys Thr Gln Ala Glu Asp Met Leu Val  
 805 810 815  
 Ser Tyr Glu Asn Ile Ile Gln Thr Ala Met Met Ser Ser Lys Thr Gly  
 820 825 830  
 Lys Pro Gly Asn Lys Pro Thr Ser Leu Asp Glu Thr Ser Ser Lys Val  
 835 840 845  
 Ser Asn Val His Val Ser Asn Asn Lys Asn Ser Glu Gln Lys  
 850 855 860

&lt;210&gt; 3352

&lt;211&gt; 198

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3352

Met Asn Phe Val Leu Val Lys Val Arg Tyr Asp Val Val Gly Met Phe  
 1 5 10 15  
 Trp Asn Met Phe Phe Gln Val Ala Ser Gly Gly Gly Gly Val Gly Asp  
 20 25 30  
 Gly Val Gln Glu Pro Thr Thr Gly Asn Trp Arg Gly Met Leu Lys Thr

35 40 45  
Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu Lys Ser Lys Pro Ile Pro  
50 55 60  
Ile Met Pro Ala Ser Pro Gln Lys Lys Lys Lys Ile Lys Gln His Pro  
65 70 75 80  
Asp Arg Tyr Thr Tyr Ser Phe Arg Leu Thr Asp Leu Ser Cys Ile Tyr  
85 90 95  
Gly Val Val Met Arg Phe Arg Thr Tyr Thr Tyr Phe Val Lys Ile Pro  
100 105 110  
Gln Met Ile Leu Gly Met Asn Asp Tyr Ile Ile Asn Phe Lys Met Tyr  
115 120 125  
Leu Glu Ile Leu Lys Thr Ser Ser Pro Val Ser Asn Arg Gln His Ile  
130 135 140  
Tyr Ile Ala Asp Ile Thr Phe Phe Ser Val Tyr Asp Gln Val Phe Met  
145 150 155 160  
Lys Asp Tyr Trp Gln Gly Lys Tyr Glu Tyr Val Asn Phe Ser Leu Trp  
165 170 175  
His Gln Phe Thr Lys Glu Gln Gln Ala His Gln Leu Met Ser Asn Ile  
180 185 190  
Lys Thr Pro Thr Ser Val  
195

&lt;210&gt; 3353

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3353

Met Cys Met Ile Asn Val Pro Leu Glu Gln Asp Asp Trp Asn Pro Gln  
 1 5 10 15  
 Val Pro Ser Pro Thr Gln Leu Cys Pro Leu Ser Leu Pro Trp Pro Thr  
 20 25 30  
 Gln Leu Leu Gln Gln Thr Pro Val Gly Leu His Trp Ser Arg Gln Gln  
 35 40 45  
 Glu Gly Pro Gln Ala Leu Ser Tyr Trp Glu Ser Gly Asp Gly Thr Gly  
 50 55 60  
 Thr Arg Leu Leu Arg Lys Glu Gly Ser Trp Pro Val Gln Asn Val Ala  
 65 70 75 80  
 Asp Gly Pro Ala Trp Trp Leu Met Pro Val Val Leu Ala Leu Gly Glu  
 85 90 95  
 Ala Glu Ala Asp Arg Ser Pro Glu Val Gly Ser Pro Thr Pro Ala Trp  
 100 105 110  
 Pro Ala

<210> 3354

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3354

Met Gly Phe Val Asn Ser Arg Lys Gly Thr Lys Phe Cys Leu Lys Arg  
 1 5 10 15  
 Glu Gly Phe Ser Lys Gly Val Met Phe Asp Leu Arg Pro Arg Glu Gly  
 20 25 30  
 Glu Arg Lys Glu Ala Cys Arg Gly Ala Leu Val Thr Arg Gly Met Leu

35                      40                      45  
 Tyr Cys Val Asp Ser Arg Asn Arg Gly Glu Ala Leu Ala Leu Ser Leu  
 50                      55                      60  
 Ser Ala Phe Trp Phe Met Gln Leu Ser Leu Pro Lys Ile Phe Phe Tyr  
 65                      70                      75                      80  
 Leu Cys Phe Cys Leu Gln Leu Leu Pro Leu Glu Val Ser Leu Ser Phe  
 85                      90                      95  
 Lys Phe Arg Glu Pro Cys Leu Trp His  
 100                      105

<210> 3355

<211> 250

<212> PRT

<213> Homo sapiens

<400> 3355

Met Pro Leu Asp Lys Met Val Asp Leu Ser Gly Ser Gln Leu Arg Arg  
 1                      5                      10                      15  
 Phe Pro Leu His Val Cys Ser Phe Arg Glu Leu Val Lys Leu Tyr Leu  
 20                      25                      30  
 Ser Asp Asn His Leu Asn Ser Leu Pro Pro Glu Leu Gly Gln Leu Gln  
 35                      40                      45  
 Asn Leu Gln Ile Leu Ala Leu Asp Phe Asn Asn Phe Lys Ala Leu Pro  
 50                      55                      60  
 Gln Val Val Cys Thr Leu Lys Gln Leu Cys Ile Leu Tyr Leu Gly Asn  
 65                      70                      75                      80  
 Asn Lys Leu Cys Asp Leu Pro Ser Glu Leu Ser Leu Leu Gln Asn Leu  
 85                      90                      95

Arg Thr Leu Trp Ile Glu Ala Asn Cys Leu Thr Gln Leu Pro Asp Val  
100 105 110  
Val Cys Glu Leu Ser Leu Leu Lys Thr Leu His Ala Gly Ser Asn Ala  
115 120 125  
Leu Arg Leu Leu Pro Gly Gln Leu Arg Arg Leu Gln Glu Leu Arg Thr  
130 135 140  
Ile Trp Leu Ser Gly Asn Arg Leu Thr Asp Phe Pro Thr Val Leu Leu  
145 150 155 160  
His Met Pro Phe Leu Glu Val Ile Asp Val Asp Trp Asn Ser Ile Arg  
165 170 175  
Tyr Phe Pro Ser Leu Ala His Leu Ser Ser Leu Lys Leu Val Ile Tyr  
180 185 190  
Asp His Asn Pro Cys Arg Asn Ala Pro Lys Val Ala Lys Gly Val Arg  
195 200 205  
Arg Val Gly Arg Trp Ala Glu Glu Thr Pro Glu Pro Asp Pro Arg Lys  
210 215 220  
Ala Arg Arg Tyr Ala Leu Val Arg Glu Glu Ser Gln Glu Leu Gln Ala  
225 230 235 240  
Pro Val Pro Leu Leu Pro Pro Thr Asn Ser  
245 250

&lt;210&gt; 3356

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3356

Met Thr Ser Val Ala His Met Ser Thr Phe Arg Pro His Ile Cys His

1	5	10	15
Leu Ser Lys Thr Ser Pro His Pro Leu Val Thr Arg Lys Arg Ala Ser			
20	25	30	
Ser Pro His Val Val Ile Val Leu Thr Ser Gly Leu Lys Gly Lys Ala			
35	40	45	
Ser Leu Arg Leu Arg Pro His Leu Pro Val Ile Phe His Pro Ile Pro			
50	55	60	
Leu Pro Arg Leu Leu Gly Leu Ser Ser Cys Ser Ile Pro Pro Phe Ala			
65	70	75	80
Val Ser Val Pro Pro Phe Pro Pro Gly Ser Ser Ser Ser Ala Met Cys			
85	90	95	
Ser Leu Pro Phe Leu Leu Lys Arg Lys Thr			
100	105		

&lt;210&gt; 3357

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3357

Met Asn Asn Glu Thr Thr Thr Leu Ile Ser Leu Lys Glu Ala Met Lys			
1	5	10	15
Arg Val Asp His Lys Leu Gln Ala Leu Glu Thr Gln Phe Lys Glu Leu			
20	25	30	
Asp Phe Thr Lys Asp Asn Leu Met Gln Lys Phe Glu His His Ser Lys			
35	40	45	
Ala Leu Ala Ser Gln Ala Ala Gln Asp Glu Met Trp Thr Ala Val Arg			
50	55	60	

Ala Leu Gln Leu Thr Ser Met Glu Leu Asn Ile Leu Tyr Ser Tyr Val  
65 70 75 80  
Ile Glu Val Leu Ile Cys Leu His Thr Arg Val Leu Glu Lys Leu Pro  
85 90 95  
Asp Leu Val Arg Gly Leu Pro Thr Leu Ala Ser Val Leu Arg Arg Lys  
100 105 110  
Val Lys Asn Lys Arg Val Arg Val Val Trp Glu Ser Ile Leu Glu Glu  
115 120 125  
Cys Gly Leu Gln Glu Gly Asp Ile Thr Ala Leu Cys Thr Phe Phe Ile  
130 135 140  
Ala Arg Gly Asn Lys Ala Glu His Tyr Thr Ala Lys Val Arg Gln Met  
145 150 155 160  
Tyr Ile Arg Asp Val Thr Phe Leu Ile Thr Asn Met Val Lys Asn Gln  
165 170 175  
Ala Leu Gln Asp Ser Leu Leu Arg Ala Val Gln Val Ile Glu Lys Gly  
180 185 190  
Lys Ala Val Arg Thr Pro Glu Lys Gln Lys Ser Ser Leu Glu Glu Leu  
195 200 205  
Ile Pro Ser Val Lys Asn  
210

&lt;210&gt; 3358

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3358

Met Gln Met Gly Asp Glu Phe Leu His Thr Leu Val Phe Leu Pro Phe

1	5	10	15
Val Asn Leu Thr Thr Asn Val Leu Ser Tyr Arg Lys Met Cys Val Arg			
20	25	30	
Val Cys Met Ser Glu Cys Val Arg Val Cys Val Cys Ala Cys Cys Lys			
35	40	45	
Asn Met Leu Glu Cys Glu Cys Gly Val Cys Leu His Val Cys Met Cys			
50	55	60	
Glu Cys Met His Ala Arg Val Cys Lys Ser Val His Val His Val Cys			
65	70	75	80
Glu Thr Thr Gly Met Arg Tyr Val Arg Met Ser Val Cys Thr Cys Val			
85	90	95	
Ser Met Cys Ile Val Tyr Asn Val His Glu Tyr Ser Val Arg Ala			
100	105	110	

&lt;210&gt; 3359

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3359

Met Gly Lys Arg Asp Asn Arg Val Ala Tyr Met Asn Pro Ile Ala Met			
1	5	10	15
Ala Arg Ser Arg Gly Pro Ile Gln Ser Ser Gly Pro Thr Ile Gln Asp			
20	25	30	
Tyr Leu Asn Arg Pro Arg Pro Thr Trp Glu Glu Val Lys Glu Gln Leu			
35	40	45	
Glu Lys Lys Lys Lys Gly Ser Lys Ala Leu Ala Glu Phe Glu Glu Lys			
50	55	60	

Met Asn Glu Asn Trp Lys Lys Glu Leu Glu Lys His Arg Glu Lys Leu  
 65                      70                      75                      80  
 Leu Ser Gly Ser Glu Ser Ser Ser Lys Lys Arg Gln Arg Lys Lys Lys  
                             85                      90                      95  
 Glu Lys Lys Lys Ser Gly Arg Val Ser Lys Asn Phe Pro Phe Phe  
                             100                      105                      110

<210> 3360

<211> 290

<212> PRT

<213> Homo sapiens

<400> 3360

Met Glu Ala Leu Ala Ser Thr Glu Lys Met Leu Gln Asp Lys Val Asn  
 1                      5                      10                      15  
 Lys Thr Ser Lys Glu Arg Gln Gln Gln Val Glu Ala Val Glu Leu Glu  
                             20                      25                      30  
 Ala Lys Glu Val Leu Lys Lys Leu Phe Pro Lys Val Ser Val Pro Ser  
                             35                      40                      45  
 Asn Leu Ser Tyr Gly Glu Trp Leu His Gly Phe Glu Lys Lys Ala Lys  
                             50                      55                      60  
 Glu Cys Met Ala Gly Thr Ser Gly Ser Glu Glu Val Lys Val Leu Glu  
 65                      70                      75                      80  
 His Lys Leu Lys Glu Ala Asp Glu Met His Thr Leu Leu Gln Leu Glu  
                             85                      90                      95  
 Cys Glu Lys Tyr Lys Ser Val Leu Ala Glu Thr Glu Gly Ile Leu Gln  
                             100                      105                      110  
 Lys Leu Gln Arg Ser Val Glu Gln Glu Glu Asn Lys Trp Lys Val Lys

115	120	125
Val Asp Glu Ser His Lys Thr Ile Lys Gln Met Gln Ser Ser Phe Thr		
130	135	140
Ser Ser Glu Gln Glu Leu Glu Arg Leu Arg Ser Glu Asn Lys Asp Ile		
145	150	155
Glu Asn Leu Arg Arg Glu Arg Glu His Leu Glu Met Glu Leu Gly Lys		
165	170	175
Ala Glu Met Glu Arg Ser Thr Tyr Val Thr Glu Val Arg Glu Leu Lys		
180	185	190
Ala Gln Leu Asn Glu Thr Leu Thr Lys Leu Arg Thr Glu Gln Asn Glu		
195	200	205
Arg Gln Lys Val Ala Gly Asp Leu His Lys Ala Gln Gln Ser Leu Glu		
210	215	220
Leu Ile Gln Ser Lys Ile Val Lys Ala Ala Gly Asp Thr Thr Val Ile		
225	230	235
Glu Asn Ser Asp Val Ser Pro Glu Thr Glu Ser Ser Glu Lys Glu Thr		
245	250	255
Met Ser Val Ser Leu Asn Gln Thr Val Thr Gln Leu Gln Gln Leu Leu		
260	265	270
Gln Ala Val Asn Gln Gln Leu Thr Lys Glu Lys Glu His Tyr Gln Val		
275	280	285
Leu Glu		
290		

&lt;210&gt; 3361

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3361

Met Ala Ala Ala Arg Thr Pro Pro Gly Gln Gln Pro Arg Leu Thr Ser  
 1 5 10 15  
 Pro Pro Pro Pro Ser Ile Ser Pro Ala Ala Trp Arg Trp Glu Ala Ala  
 20 25 30  
 Pro Arg Gly His Gly Pro Ser Pro Lys Ala His Thr Pro Ala Phe Arg  
 35 40 45  
 Arg His Pro Pro Leu Thr Thr Ala Arg Glu Val Ala Arg Val Arg Thr  
 50 55 60  
 Leu His Pro Gln Asp Val Ala Leu Ala Gly Pro Pro Gly Ser Gly Cys  
 65 70 75 80  
 Leu Arg Trp Val Trp Asp Leu Ser Cys Gly Val Phe Asp Gly Gly Trp  
 85 90 95  
 Leu Gly Arg Glu Ala Ser Ser Val Gly Arg Gly Pro Arg Gly Pro Gly  
 100 105 110  
 Ala Ala Val Val Lys Met Arg Arg His Gly Gly Arg Gly Lys Ala Pro  
 115 120 125  
 Leu Pro Ser Ser Thr Pro Ala Pro Gly Asp Cys Phe Leu Tyr  
 130 135 140

&lt;210&gt; 3362

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3362

Met Leu Arg Gln Cys Tyr Lys Glu Asp Gly Ser Ser Lys Ser Pro Asp

1 5 10 15  
Cys Pro Val Cys Ser Arg Ser Leu Asn Lys Leu Ala Gln Pro Leu Pro  
20 25 30  
Met Ala His Cys Ala Asn Ser Arg Leu Val Cys Lys Ile Ser Gly Asp  
35 40 45  
Val Met Asn Glu Asn Asn Pro Pro Met Met Leu Pro Asn Gly Tyr Val  
50 55 60  
Tyr Gly Tyr Asn Val Arg Gly Ala Gly Gln Gly Gly Gln Ala Gly Thr  
65 70 75 80  
His Arg His Arg Asp Arg Ala Val Trp Asp Gly Gln Gly Arg Gly Ala  
85 90 95  
Arg Leu Ala Arg Ile Ala Ile Gly Thr Gly Leu Cys Gly Thr Gly Arg  
100 105 110  
Ala Gly Gly Gln Ala Gly Thr Arg Arg His Arg Asp Arg Ala Val Trp  
115 120 125  
Gly Gly Gln Gly Ser Gly Ala Arg Leu Ala His Val Ala Ile Gly Thr  
130 135 140  
Gly Leu Ser Ser Arg Pro Thr Leu Pro  
145 150

&lt;210&gt; 3363

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3363

Met Ser Met Lys Leu Ser Val Thr Cys Glu Ser Ala Val Pro Met Ser  
1 5 10 15

Ile Tyr Val Leu Asn Leu Leu Leu Phe Gln Lys Arg Gly Leu Ala His  
                     20                    25                    30  
 Gln Leu Glu Glu Tyr Leu Leu Lys Trp Arg Arg Asn Lys Ala Thr Lys  
                     35                    40                    45  
 Val Ala Lys Ile Ser Ser Glu Gln Lys Lys Ile Leu Arg Arg Lys Met  
                     50                    55                    60  
 Val Leu Gln Leu Val Leu Gln Gly Leu Ala Thr Cys Val Ser His Ser  
                     65                    70                    75                    80  
 Arg Ala Ala Asn His Gly Val Gly Pro Ser His Phe Ala Gln Gly Gly  
                                     85                    90                    95  
 Leu Arg Ser Ser Gly Lys Val Leu Leu Gln Val Thr Asp Tyr Arg Cys  
                     100                    105                    110  
 Val Val Glu Gly Gln Ala  
                     115

<210> 3364

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3364

Met Trp Ser Leu Pro His Pro Thr Trp Thr Leu Asp Ser Thr Cys Tyr  
           1                    5                    10                    15  
 Ala Ala Ala Pro Ala Trp Ala Ser Phe Ser Pro Arg Thr Asp Ser Asp  
                     20                    25                    30  
 Ile Pro His Cys Ser Thr Thr Leu His Gly His Pro Pro His Pro Ala  
                     35                    40                    45  
 Trp Ala Leu Thr Pro Tyr Ser Arg Pro Pro Pro Ala Met Ser Gly His

50	55	60
Pro Pro His Pro Ser Trp	Ala Cys Lys Leu His Ile Thr Cys Pro His	
65	70	75
Ala Trp Ile Pro Phe Ser Pro His Met Ala Ser Asp Thr Pro Pro Trp		80
	85	90
Thr Ala Ile Leu Gln Gly Ser Thr Ser Ser Pro Ala Gln Ala Cys Trp		95
	100	105
Pro Pro Ala Trp Met Leu Phe Phe Thr Gly Pro Ala Leu Thr Pro Pro		110
	115	120
Gly Ala Ser Cys Ala Gly Val Phe Leu Thr Leu Leu Gly Leu		125
130	135	140

&lt;210&gt; 3365

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3365

Met Asp Pro Val Ala Ser Ser Ser Ile Arg Pro Glu Pro Asp Ser His	
1	5
Tyr Leu Gln Phe Gln Thr Gln Pro His Val Leu Trp Asn Arg Leu Pro	10
	15
	20
Glu Ala Trp Asp Arg Ser Glu Ser Leu Asp Ser Ser Trp Gly Gly Trp	25
	30
	35
Val Gly Val Arg Gly Arg Val Pro Glu Gly Pro His Ser Thr Leu Ser	40
	45
	50
Trp Ser Ala Gly Gln Gln Glu Glu Gln Ala Trp Gly Trp Leu Trp Ser	55
	60
	65
	70
	75
	80

Leu Pro Pro Arg Ser Glu Ala Val Arg Gln Glu Lys Gly Glu Lys Glu  
                     85                    90                    95  
 Pro Ser Phe Leu Glu Ser Asp Ser Asp Pro Ser Arg His Ser Gln Leu  
                     100                    105                    110  
 Val Ser Gly Asp Leu Ser Leu Thr His  
                     115                    120

<210> 3366

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3366

Met Pro Gln Thr Lys Asp Glu Gly Gly Gly Arg Trp Gly Val Gly Gly  
     1                    5                    10                    15  
 Leu Ser Asn Lys Val Trp Cys Cys Arg Thr Phe Ser Phe Phe Phe Phe  
                     20                    25                    30  
 Phe Phe Phe Phe Phe Leu Phe Phe Phe Phe Phe Phe Val Val Val Val  
                     35                    40                    45  
 Val Val Val Phe Val Phe Ile Phe Phe Phe Leu Leu Ser Ser Ser Phe  
                     50                    55                    60  
 Phe Leu Leu Pro Ser Ser Ser Phe Phe Leu Leu Leu Val Ser Leu Cys  
     65                    70                    75                    80  
 Tyr Pro Ala Trp Ser Ala Leu Arg Gln Ser Gln Leu Thr Ala Thr Ser  
                     85                    90                    95  
 Thr Cys Gln Val  
                     100

&lt;210&gt; 3367

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3367

Met Arg Val Leu Ser Arg Gly Gly Phe Gln Arg Val Lys Gly Arg His

1 5 10 15

Leu Pro Gln Leu Met Pro Gln Ser Ala Ala Pro Gln Val Ala Glu Glu

20 25 30

Gly Leu Phe Pro Gly Met Ile Leu Gln Thr Asn Ile Lys Ala Ile Val

35 40 45

Pro Leu Gly Leu Cys Leu Gly Arg Leu Lys Leu Arg Lys Leu Pro Lys

50 55 60

Val Ala Val Leu Met Ser Ala Ala Leu Lys Pro Lys Asp Met Gln Phe

65 70 75 80

Phe Phe Phe Phe Phe Glu Met Glu Ser Cys Pro Val Ala Arg Leu Glu

85 90 95

Cys Ser Gly Val Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser

100 105 110

Ser Asp Ser Ser Ala Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Thr

115 120 125

Cys His Tyr Thr Gln Ile Val Phe Val Phe Leu Val Glu Met Gly Phe

130 135 140

His His Val Gly Gln Asp Gly Leu Asp Leu Leu Thr Leu

145 150 155

&lt;210&gt; 3368

&lt;211&gt; 342

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3368

Met Asn Pro Ser Glu Met Gln Gly Lys Ala Pro Pro Gln Arg Gln Arg  
 1 5 10 15  
 Thr Arg Asn Arg Thr Ser Leu Thr Arg Arg Val Asn Lys Met Val Ile  
 20 25 30  
 Ser Glu Glu Gln Met Lys Leu Pro Ser Thr Lys Lys Ala Gly Pro Pro  
 35 40 45  
 Thr Trp Ala Gln Leu Lys Lys Leu Thr Gln Leu Ala Glu Lys Ser Leu  
 50 55 60  
 Glu Asn Thr Arg Val Thr Gln Thr Pro Glu Asn Lys Leu Leu Ala Ala  
 65 70 75 80  
 Leu Met Ile Val Ser Thr Val Val Ser Leu Pro Met Ser Ala Gly Ala  
 85 90 95  
 Ala Thr Ala Asn Tyr Thr Tyr Trp Ala Tyr Val Pro Phe Pro Pro Leu  
 100 105 110  
 Ile Arg Ala Val Thr Trp Ile Asp Asn Pro Ile Glu Val Tyr Val Asn  
 115 120 125  
 Asn Ser Ala Trp Val Pro Gly Pro Thr Asp Asp Arg Gly Pro Ala Gln  
 130 135 140  
 Pro Glu Glu Glu Gly Met Met Ile Asn Ile Ser Ile Gly Tyr His Tyr  
 145 150 155 160  
 Pro Ser Ile Cys Leu Gly Lys Thr Pro Gly Cys Leu Met Pro Thr Ile  
 165 170 175  
 Gln Asn Trp Leu Val Glu Glu Pro Thr Val Ser Ala Thr Ser Lys Phe

180 185 190  
Thr Tyr His Met Ile Ser Gly Met Ser Leu Gly Ser Gln Met Asn Asn  
195 200 205  
Leu Gln Asn Ser Ser Tyr Gln Arg Ser Leu Lys Phe Arg Pro Lys Trp  
210 215 220  
Lys Pro Cys Gln Lys Glu Ile Pro Glu Glu Ser Lys Asp Pro Glu Val  
225 230 235 240  
Leu Val Trp Glu Glu Cys Val Ala Asp Thr Ala Val Val Leu Gln Asn  
245 250 255  
Asn Lys Phe Arg Ile Ile Ile Asp Trp Ala Pro Arg Gly Gln Leu Tyr  
260 265 270  
Tyr Asp Cys Met Gly Gln Thr His Ser Cys Ser Gln Ala Pro Ser Val  
275 280 285  
Trp Pro Thr Asn Leu Ala Tyr Asp Gly Asp Leu Thr Lys Arg Leu Asp  
290 295 300  
Gln Val Tyr Arg Arg Leu Glu Ser Pro Tyr Ser Trp Lys Trp Gly Glu  
305 310 315 320  
Lys Gly Ile Pro Ser Pro Arg Pro Lys Leu Val Ser Pro Val Val Gly  
325 330 335  
Pro Glu His Pro Glu Leu  
340

&lt;210&gt; 3369

&lt;211&gt; 377

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3369

Met Pro Arg Arg Leu Gln Pro Arg Gly Ala Gly Thr Lys Gly Pro Pro  
 1 5 10 15  
 Ala Pro Ala Pro Ala Ala Ser Gly Ala Ala Arg Asn Ser His Ser Ala  
 20 25 30  
 Ala Ser Arg Asp Pro Pro Ala Ser Ala Lys Pro Leu Leu Arg Trp Asp  
 35 40 45  
 Glu Val Pro Asp Asp Phe Val Glu Cys Phe Ile Leu Ser Gly Tyr Arg  
 50 55 60  
 Arg Leu Pro Cys Thr Ala Gln Glu Cys Leu Ala Ser Val Leu Lys Pro  
 65 70 75 80  
 Thr Asn Glu Thr Leu Asn Phe Trp Thr His Phe Ile Pro Leu Leu Leu  
 85 90 95  
 Phe Leu Ser Lys Phe Cys Arg Leu Phe Phe Leu Ser Gly Gly Asp Val  
 100 105 110  
 Pro Phe His His Pro Trp Leu Leu Pro Leu Trp Cys Tyr Ala Ser Gly  
 115 120 125  
 Val Leu Leu Thr Phe Ala Met Ser Cys Thr Ala His Val Phe Ser Cys  
 130 135 140  
 Leu Ser Leu Arg Leu Arg Ala Ala Phe Phe Tyr Leu Asp Tyr Ala Ser  
 145 150 155 160  
 Ile Ser Tyr Tyr Gly Phe Gly Ser Thr Val Ala Tyr Tyr Tyr Tyr Leu  
 165 170 175  
 Leu Pro Gly Leu Ser Leu Leu Asp Ala Arg Val Met Thr Pro Tyr Leu  
 180 185 190  
 Gln Gln Arg Leu Gly Trp His Val Asp Cys Thr Arg Leu Ile Ala Ala  
 195 200 205  
 Tyr Arg Ala Leu Val Leu Pro Val Ala Phe Val Leu Ala Val Ala Cys  
 210 215 220  
 Thr Val Ala Cys Cys Lys Ser Arg Thr Asp Trp Cys Thr Tyr Pro Phe

225                      230                      235                      240  
Ala Leu Arg Thr Phe Val Phe Val Met Pro Leu Ser Met Ala Cys Pro  
                         245                      250                      255  
Ile Met Leu Glu Ser Trp Leu Phe Asp Leu Arg Gly Glu Asn Pro Thr  
                         260                      265                      270  
Leu Phe Val His Phe Tyr Arg Arg Tyr Phe Trp Leu Val Val Ala Ala  
                         275                      280                      285  
Phe Phe Asn Val Ser Lys Ile Pro Glu Arg Ile Gln Pro Gly Leu Phe  
                         290                      295                      300  
Asp Ile Ile Gly His Ser His Gln Leu Phe His Ile Phe Thr Phe Leu  
305                      310                      315                      320  
Ser Ile Tyr Asp Gln Val Tyr Tyr Val Glu Glu Gly Leu Arg Gln Phe  
                         325                      330                      335  
Leu Gln Ala Pro Pro Ala Ala Pro Thr Phe Ser Gly Thr Val Gly Tyr  
                         340                      345                      350  
Met Leu Leu Leu Val Val Cys Leu Gly Leu Val Ile Arg Lys Phe Leu  
                         355                      360                      365  
Asn Ser Ser Glu Phe Cys Ser Lys Lys  
                         370                      375

&lt;210&gt; 3370

&lt;211&gt; 193

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3370

Met Pro Ala Ser Ser Leu Leu Ser Ile Leu Pro Pro Arg Tyr Ile Ser

1

5

10

15

Asn Leu Pro Thr Phe Leu Glu Leu His Ile Thr Asp Leu Val Gln Ala  
                     20                            25                            30  
 Ile Ile Ile Ser Leu Leu Gly Pro Thr Lys Thr Leu Ile Thr Val Leu  
                     35                            40                            45  
 Phe Val Ser Phe Cys Leu Phe Leu Arg Gln Ser Leu Ile Leu Ile Thr  
                     50                            55                            60  
 Gln Ala Gly Val Gln Trp His Asp Leu Ser Ser Leu Gln Pro Leu Pro  
                     65                            70                            75                            80  
 Pro Met Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro Arg Ser Trp Asp  
                                     85                            90                            95  
 Tyr Trp His Ala Pro Pro His Gln Ala Asn Phe Ile Phe Leu Val Glu  
                     100                            105                            110  
 Met Gly Phe His Pro Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser  
                     115                            120                            125  
 Gly Asp Pro Pro Ala Ser Ala Ser Arg Ser Ala Gly Ile Thr Gly Met  
                     130                            135                            140  
 Asn His His Gly Arg Leu Thr Phe Ile Leu Ser Leu Val Leu Leu Glu  
                     145                            150                            155                            160  
 Tyr Ser Gln Ile Ile Phe His Cys Val Tyr Ile Pro His Phe Ala His  
                                     165                            170                            175  
 Trp Phe Leu Met Val Arg Ser Glu Leu Trp Val Asp Leu Ala Ile Gly  
                     180                            185                            190  
 Arg

&lt;210&gt; 3371

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3371

Met Phe Arg Lys Thr Thr Ser Phe Phe Phe Phe Phe Trp Arg Gln Gly

1 5 10 15

Leu Ala Leu Ser Pro Arg Leu Gly Cys Ser Gly Val Ile Leu Ala His

20 25 30

Cys Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser

35 40 45

Gly Val Ala Gly Ile Thr Gly Ile Cys Asp His Ala Arg Leu Ile Phe

50 55 60

Val Phe Ser Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly Leu

65 70 75 80

Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Trp Ala Ser Gln Ser Ala

85 90 95

Gln Ile Thr Gly Val Ser His Arg Ala Gln Ser Glu Asn Tyr Leu Tyr

100 105 110

Tyr Cys Ser Cys Ile Leu Lys Asn Ser Leu Arg Pro

115 120

&lt;210&gt; 3372

&lt;211&gt; 515

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3372

Met Leu Met His Trp Gly Trp Phe Leu Glu His Asp Leu Asp His Thr

1 5 10 15

Val Pro Ala Leu Ser Thr Ala Arg Phe Ser Asp Gly Arg Pro Cys Asn  
20 25 30  
Ser Val Cys Thr Asn Asp Pro Pro Cys Phe Pro Met Asn Thr Arg His  
35 40 45  
Ala Asp Pro Arg Gly Thr His Ala Pro Cys Met Leu Phe Ala Arg Ser  
50 55 60  
Ser Pro Ala Cys Ala Ser Gly Arg Pro Ser Ala Thr Val Asp Ser Val  
65 70 75 80  
Tyr Ala Arg Glu Gln Ile Asn Gln Gln Thr Ala Tyr Ile Asp Gly Ser  
85 90 95  
Asn Val Tyr Gly Ser Ser Glu Arg Glu Ser Gln Ala Leu Arg Asp Pro  
100 105 110  
Ser Val Pro Arg Gly Leu Leu Lys Thr Gly Phe Pro Trp Pro Pro Ser  
115 120 125  
Gly Lys Pro Leu Leu Pro Phe Ser Thr Gly Pro Pro Thr Glu Cys Ala  
130 135 140  
Arg Gln Glu Gln Glu Ser Pro Cys Phe Leu Ala Gly Asp His Arg Ala  
145 150 155 160  
Asn Glu His Leu Ala Leu Ala Ala Met His Thr Leu Trp Phe Arg Glu  
165 170 175  
His Asn Arg Val Ala Thr Glu Leu Ser Ala Leu Asn Pro His Trp Glu  
180 185 190  
Gly Asn Thr Val Tyr Gln Glu Ala Arg Lys Ile Val Gly Ala Glu Leu  
195 200 205  
Gln His Ile Thr Tyr Ser His Trp Leu Pro Lys Val Leu Gly Asp Pro  
210 215 220  
Gly Thr Arg Met Leu Arg Gly Tyr Arg Gly Tyr Asn Pro Asn Val Asn  
225 230 235 240  
Ala Gly Ile Ile Asn Ser Phe Ala Thr Ala Ala Phe Arg Phe Gly His

245	250	255
Thr Leu Ile Asn Pro Ile Leu Tyr Arg Leu Asn Ala Thr Leu Gly Glu		
260	265	270
Ile Ser Glu Gly His Leu Pro Phe His Lys Ala Leu Phe Ser Pro Ser		
275	280	285
Arg Ile Ile Lys Glu Gly Gly Ile Asp Pro Val Leu Arg Gly Leu Phe		
290	295	300
Gly Val Ala Ala Lys Trp Arg Ala Pro Ser Tyr Leu Leu Ser Pro Glu		
305	310	315
320		
Leu Thr Gln Arg Leu Phe Ser Ala Ala Tyr Ser Ala Ala Val Asp Ser		
325	330	335
Ala Ala Thr Ile Ile Gln Arg Gly Arg Asp His Gly Ile Pro Pro Tyr		
340	345	350
Val Asp Phe Arg Val Phe Cys Asn Leu Thr Ser Val Lys Asn Phe Glu		
355	360	365
Asp Leu Gln Asn Glu Ile Lys Asp Ser Glu Ile Arg Gln Lys Leu Arg		
370	375	380
Lys Leu Tyr Gly Ser Pro Gly Asp Ile Asp Leu Trp Pro Ala Leu Met		
385	390	395
400		
Val Glu Asp Leu Ile Pro Gly Thr Arg Val Gly Pro Thr Leu Met Cys		
405	410	415
Leu Phe Val Thr Gln Phe Gln Arg Leu Arg Asp Gly Asp Arg Phe Trp		
420	425	430
Tyr Glu Asn Pro Gly Val Phe Thr Pro Ala Gln Leu Thr Gln Leu Lys		
435	440	445
Gln Ala Ser Leu Ser Arg Val Leu Cys Asp Asn Gly Asp Ser Ile Gln		
450	455	460
Gln Val Gln Ala Asp Val Phe Val Lys Ala Glu Tyr Pro Gln Asp Tyr		
465	470	475
480		

Leu Asn Cys Ser Glu Ile Pro Lys Val Asp Leu Arg Val Trp Gln Asp  
                     485                    490                    495  
 Cys Cys Ala Asp Lys Gln Ala Gly Gly Thr Pro Glu Ala Gly Arg Val  
                     500                    505                    510  
 Tyr Arg Cys  
                     515

<210> 3373

<211> 166

<212> PRT

<213> Homo sapiens

<400> 3373

Met Trp Thr Glu Trp Gly Pro Val Gly Gly Pro Ser Ala Ala Pro Tyr  
     1                    5                    10                    15  
 Gly Gln Asp Pro His Arg Leu Gly Cys Ser Gly Pro Gln Val Ala Leu  
                     20                    25                    30  
 Val Trp Gly Glu Lys Ala Gln Gln Ala Glu Pro Gly Phe Leu Pro His  
                     35                    40                    45  
 Pro His Ile Pro Val Tyr Leu Leu Asp Leu Gln Pro Gln Ile Pro Gly  
                     50                    55                    60  
 Pro Leu Thr Trp Leu Arg Asn Arg Val Arg Ala Gly Val Leu Ser Arg  
     65                    70                    75                    80  
 Gly Trp Ala Arg Glu Pro Gly Ser Gly Arg Gln Ser Trp Cys Pro Gly  
                     85                    90                    95  
 Gly Gly Gly Pro Gly Arg Leu His Trp Glu Pro Ala Pro Gly Trp Gly  
                     100                    105                    110  
 Val Pro Gln Ala Tyr Arg Glu Gln Thr Leu Leu Leu Arg Arg Gly Gly

115                      120                      125  
 Leu Gln Pro Ala Val Leu Ser Leu Arg Val Leu His Leu Leu Asp Ala  
 130                      135                      140  
 Gly Thr Gln Gln Leu Ile Leu Glu Gln Gly Arg Val Gly Gln Ala Val  
 145                      150                      155                      160  
 Cys Gly His Gln Ala Gln  
 165

<210> 3374

<211> 868

<212> PRT

<213> Homo sapiens

<400> 3374

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser  
 1                      5                      10                      15  
 Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe  
 20                      25                      30  
 Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala  
 35                      40                      45  
 Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu  
 50                      55                      60  
 Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Ser Glu  
 65                      70                      75                      80  
 Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Ser Val Gly Glu  
 85                      90                      95  
 Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp  
 100                      105                      110

Phe Pro Val Val Pro Thr Ala Thr Arg Val Ala Ile Val Thr Phe Ser  
115 120 125  
Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg  
130 135 140  
Ala Arg Gln His Lys Cys Ala Leu Leu Leu Gln Glu Ile Pro Ala Ile  
145 150 155 160  
Ser Tyr Arg Gly Gly Gly Thr Tyr Thr Lys Gly Ala Phe Gln Gln Ala  
165 170 175  
Ala Gln Ile Leu Leu His Ala Arg Glu Asn Ser Thr Lys Val Val Phe  
180 185 190  
Leu Ile Thr Asp Gly Tyr Ser Asn Gly Gly Asp Pro Arg Pro Ile Ala  
195 200 205  
Ala Ser Leu Arg Asp Ser Gly Val Glu Ile Phe Thr Phe Gly Ile Trp  
210 215 220  
Gln Gly Asn Ile Arg Glu Leu Asn Asp Met Ala Ser Thr Pro Lys Glu  
225 230 235 240  
Glu His Cys Tyr Leu Leu His Ser Phe Glu Glu Phe Glu Ala Leu Ala  
245 250 255  
Arg Arg Ala Leu His Glu Asp Leu Pro Ser Gly Ser Phe Ile Gln Asp  
260 265 270  
Asp Met Val His Cys Ser Tyr Leu Cys Asp Glu Gly Lys Asp Cys Cys  
275 280 285  
Asp Arg Met Gly Ser Cys Lys Cys Gly Thr His Thr Gly His Phe Glu  
290 295 300  
Cys Ile Cys Glu Lys Gly Tyr Tyr Gly Lys Gly Leu Gln Tyr Glu Cys  
305 310 315 320  
Thr Ala Cys Pro Ser Gly Thr Tyr Lys Pro Glu Gly Ser Pro Gly Gly  
325 330 335  
Ile Ser Ser Cys Ile Pro Cys Pro Asp Glu Asn His Thr Ser Pro Pro

340 345 350  
Gly Ser Thr Ser Pro Glu Asp Cys Val Cys Arg Glu Gly Tyr Arg Ala  
355 360 365  
Ser Gly Gln Thr Cys Glu Leu Val His Cys Pro Ala Leu Lys Pro Pro  
370 375 380  
Glu Asn Gly Tyr Phe Ile Gln Asn Thr Cys Asn Asn His Phe Asn Ala  
385 390 395 400  
Ala Cys Gly Val Arg Cys His Pro Gly Phe Asp Leu Val Gly Ser Ser  
405 410 415  
Ile Ile Leu Cys Leu Pro Asn Gly Leu Trp Ser Gly Ser Glu Ser Tyr  
420 425 430  
Cys Arg Val Arg Thr Cys Pro His Leu Arg Gln Pro Lys His Gly His  
435 440 445  
Ile Ser Cys Ser Thr Arg Glu Met Leu Tyr Lys Thr Thr Cys Leu Val  
450 455 460  
Ala Cys Asp Glu Gly Tyr Arg Leu Glu Gly Ser Asp Lys Leu Thr Cys  
465 470 475 480  
Gln Gly Asn Ser Gln Trp Asp Gly Pro Glu Pro Arg Cys Val Glu Arg  
485 490 495  
His Cys Ser Thr Phe Gln Met Pro Lys Asp Val Ile Ile Ser Pro His  
500 505 510  
Asn Cys Gly Lys Gln Pro Ala Lys Phe Gly Thr Ile Cys Tyr Val Ser  
515 520 525  
Cys Arg Gln Gly Phe Ile Leu Ser Gly Val Lys Glu Met Leu Arg Cys  
530 535 540  
Thr Thr Ser Gly Lys Trp Asn Val Gly Val Gln Ala Ala Val Cys Lys  
545 550 555 560  
Asp Val Glu Ala Pro Gln Ile Asn Cys Pro Lys Asp Ile Glu Ala Lys  
565 570 575

Ala Leu Glu Gln Gln Asp Ser Ala Asn Val Thr Trp Gln Ile Pro Thr

580

585

590

Ala Lys Asp Asn Ser Gly Glu Lys Val Ser Val His Val His Pro Ala

595

600

605

Phe Thr Pro Pro Tyr Leu Phe Pro Ile Gly Asp Val Ala Ile Val Tyr

610

615

620

Thr Ala Thr Asp Leu Ser Gly Asn Gln Ala Ser Cys Ile Phe His Ile

625

630

635

640

Lys Val Ile Asp Ala Glu Pro Pro Val Ile Asp Trp Cys Arg Ser Pro

645

650

655

Pro Pro Val Gln Val Ser Glu Lys Val His Ala Ala Ser Trp Asp Glu

660

665

670

Pro Gln Phe Ser Asp Asn Ser Gly Ala Glu Leu Val Ile Thr Arg Ser

675

680

685

His Thr Gln Gly Asp Leu Phe Pro Gln Gly Glu Thr Ile Val Gln Tyr

690

695

700

Thr Ala Thr Asp Pro Ser Gly Asn Asn Arg Thr Cys Asp Ile His Ile

705

710

715

720

Val Ile Lys Gly Ser Pro Cys Glu Ile Pro Phe Thr Pro Val Asn Gly

725

730

735

Asp Phe Ile Cys Thr Pro Asp Asn Thr Gly Val Asn Cys Thr Leu Thr

740

745

750

Cys Leu Glu Gly Tyr Asp Phe Thr Glu Gly Ser Thr Asp Lys Tyr Tyr

755

760

765

Cys Ala Tyr Glu Asp Gly Val Trp Lys Pro Thr Tyr Thr Thr Glu Trp

770

775

780

Pro Asp Cys Ala Lys Lys Arg Phe Ala Asn His Gly Phe Lys Ser Phe

785

790

795

800

Glu Met Phe Tyr Lys Ala Ala Arg Cys Asp Asp Thr Asp Leu Met Lys

	805		810		815
Lys Phe Ser Glu Ala Phe Glu Thr Thr Leu Gly Lys Met Val Pro Ser					
	820		825		830
Phe Cys Ser Asp Ala Glu Asp Ile Asp Cys Arg Leu Glu Glu Asn Leu					
	835		840		845
Thr Lys Lys Tyr Cys Leu Glu Tyr Asn Tyr Asp Tyr Glu Asn Gly Phe					
	850		855		860
Ala Ile Gly Asn					
865					

&lt;210&gt; 3375

&lt;211&gt; 166

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3375

Met Ser Val Pro His Ala His Thr Gln Ser Cys Asn Asp Asn Gly Lys			
1	5	10	15
Lys Cys Leu Leu Thr Leu Pro Asn Val Pro Ser Gly Gly Lys Leu Pro			
	20	25	30
Leu Val Glu Asn His Cys Ser Ile Pro Phe His Gln Leu Arg Asp Pro			
	35	40	45
Pro Pro Ser Leu Arg His Leu Gln Asp Leu Val Leu Phe Trp Ser Gly			
	50	55	60
Pro Leu Gln Thr Leu Asn His Gln Pro Ala Ala Phe Val Val Leu Asp			
	65	70	75
Val Ser Ala Asn Phe Ala Gly His Thr Gly Val Pro Lys Glu Val Lys			
	85	90	95

Val Ile Ile Leu Gly Arg Glu Gly Glu Gly Ser Lys Arg Gly Arg Met  
                     100                    105                    110  
 Arg Phe Leu Gly Arg Gly Gly Val Lys Leu Val Pro Val Leu Cys Tyr  
                     115                    120                    125  
 Cys Leu Leu Pro Ser Tyr Leu Asn Leu Lys Glu Leu Pro His Leu Gln  
                     130                    135                    140  
 Gln Asp Leu Leu Gly Ile Gly Val Leu Leu Leu Ala Ile Asn Ser Cys  
                     145                    150                    155                    160  
 Leu Gln Gly Lys Gly Gly  
                                     165

<210> 3376

<211> 559

<212> PRT

<213> Homo sapiens

<400> 3376

Met Ala Gly Leu Thr Ala Ala Ala Pro Arg Pro Gly Val Leu Leu Leu  
           1                    5                    10                    15  
 Leu Leu Ser Ile Leu His Pro Ser Arg Pro Gly Gly Val Pro Gly Ala  
                     20                    25                    30  
 Ile Pro Gly Gly Val Pro Gly Gly Val Phe Tyr Pro Ala Leu Gly Pro  
                     35                    40                    45  
 Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly  
                     50                    55                    60  
 Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala  
                     65                    70                    75                    80  
 Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Ala Tyr Lys Ala Ala

	85	90	95
Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly			
	100	105	110
Val Ser Ala Ala Pro Ser Val Pro Gly Ala Val Val Pro Gln Pro Gly			
	115	120	125
Ala Gly Val Lys Pro Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val			
	130	135	140
Tyr Pro Gly Gly Val Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val			
145	150	155	160
Leu Pro Gly Val Pro Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly			
	165	170	175
Val Gly Gly Ala Phe Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly			
	180	185	190
Pro Gln Pro Gly Val Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu			
	195	200	205
Pro Gly Gly Tyr Gly Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly			
	210	215	220
Tyr Gly Pro Gly Gly Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro			
225	230	235	240
Thr Gly Thr Gly Val Gly Pro Gln Ala Ala Ala Ala Ala Ala Ala Lys			
	245	250	255
Ala Ala Ala Lys Phe Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val			
	260	265	270
Gly Gly Ala Gly Val Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly			
	275	280	285
Gly Ile Ala Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala			
	290	295	300
Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly			
305	310	315	320

Gly Pro Gly Phe Gly Pro Gly Val Val Gly Val Pro Gly Ala Gly Val  
 325 330 335  
 Pro Gly Val Gly Val Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala  
 340 345 350  
 Gly Ile Pro Gly Ala Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala  
 355 360 365  
 Ala Lys Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val  
 370 375 380  
 Gly Val Gly Gly Ile Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro  
 385 390 395 400  
 Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro  
 405 410 415  
 Gly Val Gly Gly Ser Arg Ser Arg Arg Cys Pro Gly Ser Trp His Phe  
 420 425 430  
 Pro Arg Ser Ser Gly Ser Ser Cys Arg Gln Gly Cys Gln Val Arg Val  
 435 440 445  
 Ser Ser Trp Cys Arg Arg Gly Ser Trp Ser Trp Arg Gly Ser Trp Cys  
 450 455 460  
 Arg Cys Gly Ser Trp Ser Trp Leu Gly Ser Trp Ser Trp Arg Gly Ser  
 465 470 475 480  
 Trp Ser Trp Cys Gly Ser Trp Arg Trp Arg Gly Ser Arg His Trp Pro  
 485 490 495  
 Trp Trp Ser Cys Ser Cys Ser Lys Ile Arg Cys Gln Gly Gly Cys Gln  
 500 505 510  
 Ser Pro Ala Pro Ser Cys Ser Trp Ala Trp Cys Trp His Pro Trp Thr  
 515 520 525  
 Trp Ser Trp Cys Arg Arg Pro Trp Thr Trp Ser Trp Cys Trp Cys Ser  
 530 535 540  
 Trp Thr Trp Ser Trp Cys Trp Cys Ser Trp Leu Arg Gly Ser Thr

545

550

555

&lt;210&gt; 3377

&lt;211&gt; 190

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3377

Met Glu Gly Ser Arg Pro Ala Ala Pro Ala Glu Pro Gly Thr Leu Lys

1

5

10

15

Thr Ser Leu Val Ala Thr Pro Gly Ile Asp Lys Leu Thr Glu Lys Ser

20

25

30

Gln Val Ser Glu Asp Gly Thr Leu Arg Ser Leu Glu Pro Glu Pro Gln

35

40

45

Gln Ser Leu Glu Asp Gly Ser Pro Ala Lys Gly Glu Pro Ser Gln Ala

50

55

60

Trp Arg Glu Gln Arg Arg Pro Ser Thr Ser Ser Ala Ser Gly Gln Trp

65

70

75

80

Ser Pro Thr Pro Glu Trp Val Leu Ser Trp Lys Ser Lys Leu Pro Leu

85

90

95

Gln Thr Ile Met Arg Leu Leu Gln Val Leu Val Pro Gln Val Glu Lys

100

105

110

Ile Cys Ile Asp Lys Gly Leu Thr Asp Glu Ser Glu Ile Leu Arg Phe

115

120

125

Leu Gln His Gly Thr Leu Val Gly Leu Leu Pro Val Pro His Pro Ile

130

135

140

Leu Ile Arg Lys Tyr Gln Ala Asn Ser Gly Thr Ala Met Trp Phe Arg

145

150

155

160

Thr Tyr Met Trp Gly Val Ile Tyr Leu Arg Asn Val Asp Pro Pro Val

165

170

175

Trp Tyr Asp Thr Asp Val Lys Leu Phe Glu Ile Gln Arg Val

180

185

190

<210> 3378

<211> 166

<212> PRT

<213> Homo sapiens

<400> 3378

Met Lys Pro His Lys Ser Leu Ala Arg His Ile Ile Ile Pro Val Leu

1

5

10

15

Leu Ser Arg Lys Leu Ser Glu Arg Asp Tyr Arg Asn Cys Pro Gly His

20

25

30

Pro Ala Gly Lys Trp Arg Ile Gln Val Ser Thr Pro Gly Pro Ala Pro

35

40

45

Ala Tyr Phe Leu Phe Ser Met Cys Glu Ile Gln Cys Tyr Pro Val Ser

50

55

60

Glu Ser Ser Val Arg Cys Gly Ser Cys His Pro Phe Leu Trp Pro Cys

65

70

75

80

Ser Leu Arg Leu Phe Lys Leu Leu Leu Leu Ser Arg Thr Leu Phe His

85

90

95

Ile Ser Gln Pro Leu Asn Cys Leu Asn Gly Pro Arg Cys Leu Arg Pro

100

105

110

Ile Thr Ser Gly His Ala Lys Val Gly Phe Ala Val Pro Arg Arg Asp

115

120

125

Cys Ser Ala Gln Pro Arg Leu Pro Phe Pro Leu Pro Val Pro Ile Leu

130                      135                      140  
 Pro Cys Thr Ile Cys Pro Leu His Gly Gln Gly Arg Gly Pro Ser Gly  
 145                      150                      155                      160  
 Leu Phe Ala Gln Lys Ile  
                             165

<210> 3379

<211> 538

<212> PRT

<213> Homo sapiens

<400> 3379

Met Gly Leu Leu Leu Leu Val Leu Ile Leu Thr Pro Ser Leu Ala Ala  
       1                      5                      10                      15  
 Tyr Arg His Pro Asp Phe Pro Leu Leu Glu Lys Ala Gln Gln Leu Leu  
                             20                      25                      30  
 Gln Ser Thr Gly Ser Pro Tyr Ser Thr Asn Cys Trp Leu Cys Thr Ser  
                             35                      40                      45  
 Ser Ser Thr Glu Thr Pro Gly Thr Ala Tyr Pro Ala Ser Pro Arg Glu  
                             50                      55                      60  
 Trp Thr Ser Ile Glu Ala Glu Leu His Ile Ser Tyr Arg Trp Asp Pro  
       65                      70                      75                      80  
 Asn Leu Lys Gly Leu Met Arg Pro Ala Asn Ser Leu Leu Ser Thr Val  
                             85                      90                      95  
 Lys Gln Asp Phe Pro Asp Ile Arg Gln Lys Pro Pro Ile Phe Gly Pro  
                             100                      105                      110  
 Ile Phe Thr Asn Ile Asn Leu Met Gly Ile Ala Pro Ile Cys Val Met  
                             115                      120                      125

Ala Lys Arg Lys Asn Gly Thr Asn Val Gly Thr Leu Pro Ser Thr Val  
130 135 140  
Cys Asn Val Thr Phe Thr Val Asp Ser Asn Gln Gln Thr Tyr Gln Thr  
145 150 155 160  
Tyr Thr His Asn Gln Phe Arg His Gln Pro Arg Phe Pro Lys Pro Pro  
165 170 175  
Asn Ile Thr Phe Pro Gln Gly Thr Leu Leu Asp Lys Ser Ser Arg Phe  
180 185 190  
Cys Gln Gly Arg Pro Ser Ser Cys Ser Thr Arg Asn Phe Trp Phe Arg  
195 200 205  
Pro Ala Asp Tyr Asn Gln Cys Leu Gln Ile Ser Asn Leu Ser Ser Thr  
210 215 220  
Ala Glu Trp Val Leu Leu Asp Gln Thr Arg Asn Ser Leu Phe Trp Glu  
225 230 235 240  
Asn Lys Thr Lys Gly Ala Asn Gln Ser Gln Thr Pro Cys Val Gln Val  
245 250 255  
Leu Ala Gly Met Thr Ile Ala Thr Ser Tyr Leu Gly Ile Ser Ala Val  
260 265 270  
Ser Glu Phe Phe Gly Thr Ser Leu Thr Pro Leu Phe His Phe His Ile  
275 280 285  
Ser Thr Cys Leu Lys Thr Gln Gly Ala Phe Tyr Ile Cys Gly Gln Ser  
290 295 300  
Ile His Gln Cys Leu Pro Ser Asn Trp Thr Gly Thr Cys Thr Ile Gly  
305 310 315 320  
Tyr Val Thr Pro Asp Ile Phe Ile Ala Pro Gly Asn Leu Ser Leu Pro  
325 330 335  
Ile Pro Ile Tyr Gly Asn Ser Pro Leu Pro Arg Val Arg Arg Ala Ile  
340 345 350  
His Phe Ile Pro Leu Leu Ala Gly Leu Gly Ile Leu Ala Gly Thr Gly

355 360 365  
Thr Gly Ile Ala Gly Ile Thr Lys Ala Ser Leu Thr Tyr Ser Gln Leu  
370 375 380  
Ser Lys Glu Ile Ala Asn Asn Ile Asp Thr Met Ala Lys Ala Leu Thr  
385 390 395 400  
Thr Met Gln Glu Gln Ile Asp Ser Leu Ala Ala Val Val Leu Gln Asn  
405 410 415  
Arg Arg Gly Leu Asp Met Leu Thr Ala Ala Gln Gly Gly Ile Cys Leu  
420 425 430  
Ala Leu Asp Glu Lys Cys Cys Phe Trp Val Asn Gln Ser Gly Lys Val  
435 440 445  
Gln Asp Asn Ile Arg Gln Leu Leu Asn Gln Ala Ser Ser Leu Arg Glu  
450 455 460  
Arg Ala Thr Gln Gly Trp Leu Asn Trp Glu Gly Thr Trp Lys Trp Phe  
465 470 475 480  
Ser Trp Val Leu Pro Leu Thr Gly Pro Leu Val Ser Leu Leu Leu Leu  
485 490 495  
Leu Leu Phe Gly Pro Cys Leu Leu Asn Leu Ile Thr Gln Phe Val Ser  
500 505 510  
Ser Arg Leu Gln Ala Ile Lys Leu Gln Thr Asn Leu Ser Ala Gly Arg  
515 520 525  
His Pro Arg Asn Ile Gln Glu Ser Pro Phe  
530 535

&lt;210&gt; 3380

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3380

Met Ala Thr Thr Ile Ser Lys Leu Lys Val Asp Leu Asp Phe Asp Ser  
 1 5 10 15  
 Ser Ser Ile Ser Gln Ile His Leu Val Leu Phe Gly Phe Gln Asp Ala  
 20 25 30  
 Val Asn Lys Ile Leu Arg Asn His Leu Ile Arg Pro His Trp Met Phe  
 35 40 45  
 Ala Met Asp Asn Ile Ile Arg Arg Ala Val Gln Ala Ala Val Thr Ile  
 50 55 60  
 Leu Ile Pro Glu Leu Arg Ala His Phe Glu Pro Thr Cys Glu Thr Glu  
 65 70 75 80  
 Gly Val Asp Lys Asp Met Asp Glu Ala Glu Glu Gly Tyr Pro Pro Ala  
 85 90 95  
 Thr Gly Pro Gly Gln Glu Ala Gln Pro His Gln Gln His Leu Ser Leu  
 100 105 110  
 Gln Leu Gly Glu Leu Arg Gln Glu Thr Asn Arg Leu Leu Glu His Leu  
 115 120 125  
 Val Glu Lys Glu Arg Glu Tyr Gln Asn Leu Leu Arg Gln Thr Leu Glu  
 130 135 140  
 Gln Lys Thr Gln Glu Leu Tyr His Leu Gln Leu Lys Leu Lys Ser Asn  
 145 150 155 160  
 Cys Ile Thr Glu Asn Pro Ala Gly Pro Tyr Gly Gln Arg Thr Asp Lys  
 165 170 175  
 Glu Leu Ile Gly Trp Leu Arg Leu Gln Gly Ala Asp Ala Lys Thr Ile  
 180 185 190  
 Glu Lys Ile Val Glu Glu Gly Tyr Thr Leu Ser Asp Ile Leu Asn Glu  
 195 200 205  
 Ile Thr Lys Glu Asp Leu Arg Tyr Leu Arg Leu Arg Gly Gly Leu Leu

210                      215                      220  
 Cys Arg Leu Trp Ser Ala Val Ser Gln Tyr Arg Arg Ala Gln Glu Ala  
 225                      230                      235                      240  
 Ser Glu Thr Lys Asp Lys Ala  
 245

<210> 3381

<211> 275

<212> PRT

<213> Homo sapiens

<400> 3381

Met Glu Glu Val Arg Glu Gly His Ala Leu Gly Gly Gly Met Glu Ala  
 1                      5                      10                      15  
 Asp Gly Pro Ala Ser Leu Gln Glu Leu Pro Pro Ser Pro Arg Ser Pro  
 20                      25                      30  
 Ser Pro Pro Pro Ser Pro Pro Pro Leu Pro Ser Pro Pro Ser Leu Pro  
 35                      40                      45  
 Ser Pro Ala Ala Pro Glu Ala Pro Glu Leu Pro Glu Pro Ala Gln Pro  
 50                      55                      60  
 Ser Glu Ala His Ala Arg Gln Leu Leu Leu Glu Glu Trp Gly Pro Leu  
 65                      70                      75                      80  
 Ser Gly Gly Leu Glu Leu Pro Gln Arg Leu Thr Trp Lys Leu Leu Leu  
 85                      90                      95  
 Leu Arg Arg Pro Leu Tyr Arg Asn Leu Leu Arg Ser Pro Asn Pro Glu  
 100                      105                      110  
 Gly Ile Asn Ile Tyr Glu Pro Ala Pro Pro Thr Gly Pro Thr Gln Arg  
 115                      120                      125

Pro Leu Glu Thr Leu Gly Asn Phe Arg Gly Trp Tyr Ile Arg Thr Glu  
130 135 140  
Lys Leu Gln Gln Asn Gln Ser Trp Thr Val Lys Gln Gln Cys Val Asp  
145 150 155 160  
Leu Leu Ala Glu Gly Leu Trp Glu Glu Leu Leu Asp Asp Glu Gln Pro  
165 170 175  
Ala Ile Thr Val Met Asp Trp Phe Glu Asp Ser Arg Leu Asp Ala Cys  
180 185 190  
Val Tyr Glu Leu His Val Trp Leu Leu Ala Ala Asp Arg Arg Thr Val  
195 200 205  
Ile Ala Gln His His Val Ala Pro Arg Thr Ser Gly Arg Gly Pro Pro  
210 215 220  
Gly Arg Trp Val Gln Val Ser His Val Phe Arg His Tyr Gly Pro Gly  
225 230 235 240  
Val Arg Phe Ile His Phe Leu His Lys Ala Lys Asn Arg Met Glu Pro  
245 250 255  
Gly Gly Leu Arg Arg Thr Arg Val Thr Asp Ser Ser Val Ser Val Gln  
260 265 270  
Leu Arg Glu  
275

&lt;210&gt; 3382

&lt;211&gt; 452

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3382

Met Lys Val Gln Pro Ser Val Thr Cys Val Ala Ser Trp Gly Gly Ile

1	5	10	15
Val His Leu Glu Ala Phe Gly Asp Pro Val Ile Val Leu Arg Gly Ala			
20	25	30	
Trp Ala Val Pro Arg Val Asp Cys Leu Ile Asp Thr Leu Arg Thr Pro			
35	40	45	
Asn Ala Ser Cys Met Arg Lys Gly Thr His Leu Leu Val Pro Cys Leu			
50	55	60	
Glu Glu Glu Glu Leu Ala Leu His Arg Arg Arg Leu Asp Met Ser Glu			
65	70	75	80
Ala Leu Pro Cys Pro Gly Lys Glu Thr Pro Thr Pro Gly Cys Arg Leu			
85	90	95	
Gly Ala Leu Tyr Trp Ala Cys Val His Asn Asp Pro Thr Gln Leu Gln			
100	105	110	
Ala Ile Leu Asp Gly Gly Val Ser Pro Glu Glu Ala Thr Gln Val Asp			
115	120	125	
Ser Asn Gly Arg Thr Gly Leu Met Val Ala Cys Phe His Gly Phe Gln			
130	135	140	
Ser Val Val Ala Leu Leu Ser His Cys Pro Phe Leu Asp Val Asn Gln			
145	150	155	160
Gln Asp Lys Gly Gly Asp Thr Ala Leu Met Leu Ala Ala Gln Ala Gly			
165	170	175	
His Val Pro Leu Val Ser Leu Leu Leu Asn Tyr Tyr Val Gly Leu Asp			
180	185	190	
Leu Glu Arg Arg Asp Gln Arg Gly Leu Thr Ala Leu Met Lys Ala Ala			
195	200	205	
Met Arg Asn Arg Cys Ala Asp Leu Thr Ala Val Asp Pro Val Arg Gly			
210	215	220	
Lys Thr Ala Leu Glu Trp Ala Val Leu Thr Asp Ser Phe Asp Thr Val			
225	230	235	240

Trp Arg Ile Arg Gln Leu Leu Arg Arg Pro Gln Val Glu Gln Leu Ser  
 245 250 255  
 Arg His Tyr Lys Pro Glu Trp Pro Ala Leu Ser Gly Leu Val Ala Gln  
 260 265 270  
 Ala Gln Ala Gln Ala Gln Val Ala Pro Ser Leu Leu Glu Arg Leu Gln  
 275 280 285  
 Ala Thr Leu Ser Leu Pro Phe Ala Pro Ser Pro Gln Glu Gly Gly Val  
 290 295 300  
 Leu Asp His Leu Val Thr Ala Thr Thr Ser Leu Ala Ser Pro Phe Val  
 305 310 315 320  
 Thr Thr Ala Cys His Thr Leu Cys Pro Asp His Pro Pro Ser Leu Gly  
 325 330 335  
 Thr Arg Ser Lys Ser Val Pro Glu Leu Leu Gly Thr Ala Pro Pro Pro  
 340 345 350  
 Pro Leu Val Pro Gln Ser Pro Pro Gly Ser Pro Gln Arg Ser Pro Trp  
 355 360 365  
 Val Phe Val Pro Tyr Gln Ser Pro Gln Gly Ile Leu Ser Lys Cys Leu  
 370 375 380  
 Gln Trp Leu Gln Pro Arg Asp Ser Thr Ser Pro Arg Pro Gln Val Pro  
 385 390 395 400  
 Lys Ile Leu Leu Ser Lys Ala Ser Ser Ser Ser His Gln Cys Gln Pro  
 405 410 415  
 Lys Pro Ser Pro Ser Gly His Gln Ser Leu Ala Leu Pro Leu Trp Arg  
 420 425 430  
 Tyr Gln Glu Leu Arg Ile Glu Lys Arg Lys Gln Glu Glu Glu Ala Arg  
 435 440 445  
 Met Ala Gln Lys  
 450

&lt;210&gt; 3383

&lt;211&gt; 409

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3383

Met Val Glu Leu Phe Ile Phe Leu Phe Leu Leu Gly Glu Thr Pro Phe

1

5

10

15

Lys Val Val Val Lys Ser Leu Ser Pro Lys Glu Leu Val Arg Ile His

20

25

30

Val Pro Lys Pro Leu Asp Arg Asn Asp Gly Thr Phe Leu Met Arg Tyr

35

40

45

Arg Met Tyr Glu Thr Val Asp Glu Gly Leu Lys Ile Glu Val Leu Tyr

50

55

60

Gly Asp Glu His Val Ala Gln Ser Pro Tyr Ile Leu Lys Gly Pro Val

65

70

75

80

Tyr His Glu Tyr Cys Glu Cys Pro Glu Asp Pro Gln Ala Trp Gln Lys

85

90

95

Thr Leu Ser Cys Pro Thr Lys Glu Pro Gln Ile Ala Lys Asp Phe Ala

100

105

110

Ser Phe Pro Ser Ile Asn Leu Gln Gln Met Leu Lys Glu Val Pro Lys

115

120

125

Arg Phe Gly Asp Glu Arg Gly Ala Ile Val His Tyr Thr Ile Leu Asn

130

135

140

Asn His Val Tyr Arg Arg Ser Leu Gly Lys Tyr Thr Asp Phe Lys Met

145

150

155

160

Phe Ser Asp Glu Ile Leu Leu Ser Leu Thr Arg Lys Val Leu Leu Pro

165

170

175

Asp Leu Glu Phe Tyr Val Asn Leu Gly Asp Trp Pro Leu Glu His Arg  
180 185 190  
Lys Val Asn Gly Thr Pro Ser Pro Ile Pro Ile Ile Ser Trp Cys Gly  
195 200 205  
Ser Leu Asp Ser Arg Asp Val Val Leu Pro Thr Tyr Asp Ile Thr His  
210 215 220  
Ser Met Leu Glu Ala Met Arg Gly Val Thr Asn Asp Leu Leu Ser Ile  
225 230 235 240  
Gln Gly Asn Thr Gly Pro Ser Trp Ile Asn Lys Thr Glu Arg Ala Phe  
245 250 255  
Phe Arg Gly Arg Asp Ser Arg Glu Glu Arg Leu Gln Leu Val Gln Leu  
260 265 270  
Ser Lys Glu Asn Pro Gln Leu Leu Asp Ala Gly Ile Thr Gly Tyr Phe  
275 280 285  
Phe Phe Gln Glu Lys Glu Lys Glu Leu Gly Lys Ala Lys Leu Met Gly  
290 295 300  
Phe Phe Asp Phe Phe Lys Tyr Lys Tyr Gln Val Asn Val Asp Gly Thr  
305 310 315 320  
Val Ala Ala Tyr Arg Tyr Pro Tyr Leu Met Leu Gly Asp Ser Leu Val  
325 330 335  
Leu Lys Gln Asp Ser Pro Tyr Tyr Glu His Phe Tyr Met Ala Leu Glu  
340 345 350  
Pro Trp Lys His Tyr Val Pro Ile Lys Arg Asn Leu Ser Asp Leu Leu  
355 360 365  
Glu Lys Val Lys Trp Ala Lys Ser Phe Thr Leu Ser Pro Arg Leu Glu  
370 375 380  
Cys Ser Gly Thr Ile Ser Thr His Cys Asn Leu Cys Leu Pro Gly Ser  
385 390 395 400  
Arg Asn Phe Val Pro Gln Pro Pro Glu

405

&lt;210&gt; 3384

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3384

Met Arg Lys Pro Arg Glu Met Arg Gly Leu Ala Gln Gly Arg Gly Val

1 5 10 15

His Ser Gln Leu Cys Leu Leu Leu Thr Gln Asn Lys Asp Leu Gly Thr

20 25 30

Pro Arg Gly Ser Trp Pro Ser Gly Met Asp Ser Trp His Leu Arg Ala

35 40 45

Ser Arg Leu Gln Pro Ser Gly Ser His Gly Cys Pro Lys Ser Ser Gly

50 55 60

Pro Leu Leu Gly Ser Trp Leu Gly Cys Leu Ala Leu Pro Asp Arg Arg

65 70 75 80

Leu Leu Gly Ser Cys Leu Leu Gly Asp Ala Ser Cys Arg Ser Trp Cys

85 90 95

Gly Gly Gly Gln Gly Gly Gly Gly Phe Phe Leu Ser Leu Ser Leu Ser

100 105 110

Ser Thr Phe Ser Pro Leu Pro Arg Gly Asn Gly Ser Arg Ile Ser Phe

115 120 125

Lys Arg Met Leu Leu Tyr Phe Ala Ser Gly Trp Lys Val Ala Val Leu

130 135 140

Ala Pro Val Ser Cys Thr Trp Thr Pro Val

145 150

&lt;210&gt; 3385

&lt;211&gt; 141

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3385

Met Val His Ala Cys Gln Val Ser Ser Glu Cys Ser Gly Cys Leu Arg

1 5 10 15

Gly Gly Glu Glu Gly Met Pro Trp Leu Leu Pro Pro Leu Cys His His

20 25 30

Leu Pro Ala His Leu Gly Leu Lys Ser Val Trp Thr Ala Glu Ser Val

35 40 45

Ser Glu Lys Pro Val Leu Gly Gln Glu Leu Gly Asn Arg Ala Val Lys

50 55 60

Glu Val Gln Ser Gly Glu Glu Arg Arg Lys Leu Asp Leu Gly Thr Asp

65 70 75 80

Arg Ile Pro Gln Ala Cys Ser Thr Ser Gln Pro Leu Tyr Ala Pro Thr

85 90 95

Leu Gly Leu Trp Thr Gly Phe Met Phe Cys Leu Ile Ser Val Pro Glu

100 105 110

Ala Glu Met Gly Met Val Glu Arg Ser Ser Thr Gln Val Ala Pro Gly

115 120 125

Met Gly Met Ser Thr Pro Tyr Ser Pro Cys Val Ser Ser

130 135 140

&lt;210&gt; 3386

&lt;211&gt; 336

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3386

Met Val Glu Leu Ala Lys Tyr Ala Lys Gln His Val Pro Glu Gln His

1 5 10 15

Pro Lys Asp Lys Pro Ser Phe Val Arg Ala Arg Val Lys Lys Leu Leu

20 25 30

Ala Ala Gly Val Val Ser Ala Met Val Cys Met Val Lys Thr Glu Ser

35 40 45

Pro Val Leu Thr Ser Ser Cys Arg Glu Leu Leu Ser Arg Val Phe Leu

50 55 60

Ala Leu Val Glu Glu Val Glu Asp Arg Gly Thr Val Val Ala Gln Gly

65 70 75 80

Gly Gly Arg Ala Leu Ile Pro Leu Ala Leu Glu Gly Thr Asp Val Gly

85 90 95

Gln Thr Lys Ala Ala Gln Ala Leu Ala Lys Leu Thr Ile Thr Ser Asn

100 105 110

Pro Glu Met Thr Phe Pro Gly Glu Arg Ile Tyr Glu Val Val Arg Pro

115 120 125

Leu Val Ser Leu Leu His Leu Asn Cys Ser Gly Leu Gln Asn Phe Glu

130 135 140

Ala Leu Met Ala Leu Thr Asn Leu Ala Gly Ile Ser Glu Arg Leu Arg

145 150 155 160

Gln Lys Ile Leu Lys Glu Lys Ala Val Pro Met Ile Glu Gly Tyr Met

165 170 175

Phe Glu Glu His Glu Met Ile Arg Arg Ala Ala Thr Glu Cys Met Cys

180 185 190

Asn Leu Ala Met Ser Lys Glu Val Gln Asp Leu Phe Glu Ala Gln Gly  
 195 200 205  
 Asn Asp Arg Leu Lys Leu Leu Val Leu Tyr Ser Gly Glu Asp Asp Glu  
 210 215 220  
 Leu Leu Gln Arg Ala Ala Ala Gly Gly Leu Ala Met Leu Thr Ser Met  
 225 230 235 240  
 Arg Pro Thr Leu Cys Ser Arg Ile Pro Gln Val Thr Thr His Trp Leu  
 245 250 255  
 Glu Ile Leu Gln Ala Leu Leu Leu Ser Ser Asn Gln Glu Leu Gln His  
 260 265 270  
 Arg Gly Ala Val Val Val Leu Asn Met Val Glu Ala Ser Arg Glu Ile  
 275 280 285  
 Ala Ser Thr Leu Met Glu Ser Glu Met Met Glu Ile Leu Ser Val Leu  
 290 295 300  
 Ala Lys Gly Asp His Ser Pro Val Thr Arg Ala Ala Ala Ala Cys Leu  
 305 310 315 320  
 Asp Lys Ala Val Glu Tyr Gly Leu Ile Gln Pro Asn Gln Asp Gly Glu  
 325 330 335

<210> 3387

<211> 1088

<212> PRT

<213> Homo sapiens

<400> 3387

Met Ala Asn Gly Thr Ala Asp Val Arg Lys Leu Phe Ile Phe Thr Thr  
 1 5 10 15  
 Thr Gln Asn Tyr Phe Gly Leu Met Ser Glu Leu Trp Asp Gln Pro Leu

20	25	30	
Leu Cys Asn Cys Leu Glu Ile Asn Asn Phe Leu Asp Asp Gly Asn Gln			
35	40	45	
Met Leu Leu Arg Val Gln Arg Ser Asp Ala Gly Ile Ser Phe Ser Asn			
50	55	60	
Thr Ile Glu Phe Gly Asp Thr Lys Asp Lys Val Leu Val Phe Phe Lys			
65	70	75	80
Leu Arg Pro Glu Val Ile Thr Asp Glu Asn Leu His Asp Asn Ile Leu			
85	90	95	
Val Ser Ser Met Leu Glu Ser Pro Ile Ser Ser Leu Tyr Gln Ala Val			
100	105	110	
Arg Gln Val Phe Ala Pro Met Leu Leu Lys Asp Gln Glu Trp Ser Arg			
115	120	125	
Asn Phe Asp Pro Lys Leu Gln Asn Leu Leu Ser Glu Leu Glu Ala Gly			
130	135	140	
Leu Gly Ile Val Leu Arg Arg Ser Asp Thr Asn Leu Thr Lys Leu Lys			
145	150	155	160
Phe Lys Glu Asp Asp Thr Arg Gly Ile Leu Thr Pro Ser Asp Glu Phe			
165	170	175	
Gln Phe Trp Ile Glu Gln Ala His Arg Gly Asn Lys Gln Ile Ser Lys			
180	185	190	
Glu Arg Ala Asn Tyr Phe Lys Glu Leu Phe Glu Thr Ile Ala Arg Glu			
195	200	205	
Phe Tyr Asn Leu Asp Ser Leu Ser Leu Leu Glu Val Val Asp Leu Val			
210	215	220	
Glu Thr Thr Gln Asp Val Val Asp Asp Val Trp Arg Gln Thr Glu His			
225	230	235	240
Asp His Tyr Pro Glu Ser Arg Met Leu His Leu Leu Asp Ile Ile Gly			
245	250	255	

Gly Ser Phe Gly Arg Phe Val Gln Lys Lys Leu Gly Thr Leu Asn Leu			
260	265	270	
Trp Glu Asp Pro Tyr Tyr Leu Val Lys Glu Ser Leu Lys Ala Gly Ile			
275	280	285	
Ser Ile Cys Glu Gln Trp Val Ile Val Cys Asn His Leu Thr Gly Gln			
290	295	300	
Val Trp Gln Arg Tyr Val Pro His Pro Trp Lys Asn Glu Lys Tyr Phe			
305	310	315	320
Pro Glu Thr Leu Asp Lys Leu Gly Lys Arg Leu Glu Glu Val Leu Ala			
325	330	335	
Ile Arg Thr Ile His Glu Lys Phe Leu Tyr Phe Leu Pro Ala Ser Glu			
340	345	350	
Glu Lys Ile Ile Cys Leu Thr Arg Val Phe Glu Pro Phe Thr Gly Leu			
355	360	365	
Asn Pro Val Gln Tyr Asn Pro Tyr Thr Glu Pro Leu Trp Lys Ala Ala			
370	375	380	
Val Ser Gln Tyr Glu Lys Ile Ile Ala Pro Ala Glu Gln Lys Ile Ala			
385	390	395	400
Gly Lys Leu Lys Asn Tyr Ile Ser Glu Ile Gln Asp Ser Pro Gln Gln			
405	410	415	
Leu Leu Gln Ala Phe Leu Lys Tyr Lys Glu Leu Val Lys Arg Pro Thr			
420	425	430	
Ile Ser Lys Glu Leu Met Leu Glu Arg Glu Thr Leu Leu Ala Arg Leu			
435	440	445	
Val Asp Ser Ile Lys Asp Phe Arg Leu Asp Phe Glu Asn Arg Cys Arg			
450	455	460	
Gly Ile Pro Gly Asp Ala Ser Gly Pro Leu Ser Gly Lys Asn Leu Ser			
465	470	475	480
Glu Val Val Asn Ser Ile Val Trp Val Arg Gln Leu Glu Leu Lys Val			

485	490	495
Asp Asp Thr Ile Lys Ile Ala Glu Ala Leu Leu Ser Asp Leu Pro Gly		
500	505	510
Phe Arg Cys Phe His Gln Ser Ala Lys Asp Leu Leu Asp Gln Leu Lys		
515	520	525
Leu Tyr Glu Gln Glu Gln Phe Asp Asp Trp Ser Arg Asp Ile Gln Ser		
530	535	540
Gly Leu Ser Asp Ser Arg Ser Gly Leu Cys Ile Glu Ala Ser Ser Arg		
545	550	555
Ile Met Glu Leu Asp Ser Asn Asp Gly Leu Leu Lys Val His Tyr Ser		
565	570	575
Asp Arg Leu Val Ile Leu Leu Arg Glu Val Arg Gln Leu Ser Ala Leu		
580	585	590
Gly Phe Val Ile Pro Ala Lys Ile Gln Gln Val Ala Asn Ile Ala Gln		
595	600	605
Lys Phe Cys Lys Gln Ala Ile Ile Leu Lys Gln Val Ala His Phe Tyr		
610	615	620
Asn Ser Ile Asp Gln Gln Met Ile Gln Ser Gln Arg Pro Met Met Leu		
625	630	635
Gln Ser Ala Leu Ala Phe Glu Gln Ile Ile Lys Asn Ser Lys Ala Gly		
645	650	655
Ser Gly Gly Lys Ser Gln Ile Thr Trp Asp Asn Pro Lys Glu Leu Glu		
660	665	670
Gly Tyr Ile Gln Lys Leu Gln Asn Ala Ala Glu Arg Leu Ala Thr Glu		
675	680	685
Asn Arg Lys Leu Arg Lys Trp His Thr Thr Phe Cys Glu Lys Val Val		
690	695	700
Val Leu Met Asn Ile Asp Leu Leu Arg Gln Gln Gln Arg Trp Lys Asp		
705	710	715
		720

Gly Leu Gln Glu Leu Arg Thr Gly Leu Ala Thr Val Glu Ala Gln Gly  
725 730 735  
Phe Gln Ala Ser Asp Met His Ala Trp Lys Gln His Trp Asn His Gln  
740 745 750  
Leu Tyr Lys Ala Leu Glu His Gln Tyr Gln Met Gly Leu Glu Ala Leu  
755 760 765  
Asn Glu Asn Leu Pro Glu Ile Asn Ile Asp Leu Thr Tyr Lys Gln Gly  
770 775 780  
Arg Leu Gln Phe Arg Pro Pro Phe Glu Glu Ile Arg Ala Lys Tyr Tyr  
785 790 795 800  
Arg Glu Met Lys Arg Phe Ile Gly Ile Pro Asn Gln Phe Lys Gly Val  
805 810 815  
Gly Glu Ala Gly Asp Glu Ser Ile Phe Ser Ile Met Ile Asp Arg Asn  
820 825 830  
Ala Ser Gly Phe Leu Thr Ile Phe Ser Lys Ala Glu Asp Leu Phe Arg  
835 840 845  
Arg Leu Ser Ala Val Leu His Gln His Lys Glu Trp Ile Val Ile Gly  
850 855 860  
Gln Val Asp Met Glu Ala Leu Val Glu Lys His Leu Phe Thr Val His  
865 870 875 880  
Asp Trp Glu Lys Asn Phe Lys Ala Leu Lys Ile Lys Gly Lys Glu Val  
885 890 895  
Glu Arg Leu Pro Ser Ala Val Lys Val Asp Cys Leu Asn Ile Asn Cys  
900 905 910  
Asn Pro Val Lys Thr Val Ile Asp Asp Leu Ile Gln Lys Leu Phe Asp  
915 920 925  
Leu Leu Val Leu Ser Leu Lys Lys Ser Ile Gln Ala His Leu His Glu  
930 935 940  
Ile Asp Thr Phe Val Thr Glu Ala Met Glu Val Leu Thr Ile Met Pro

945                      950                      955                      960  
 Gln Ser Val Glu Glu Ile Gly Asp Ala Asn Leu Gln Tyr Ser Lys Leu  
                          965                      970                      975  
 Gln Glu Arg Lys Pro Glu Ile Leu Pro Leu Phe Gln Glu Ala Glu Asp  
                          980                      985                      990  
 Lys Asn Arg Leu Leu Arg Thr Val Ala Gly Gly Gly Leu Glu Thr Ile  
                          995                      1000                      1005  
 Ser Asn Leu Lys Ala Lys Trp Asp Lys Phe Glu Leu Met Met Glu Ser  
                          1010                      1015                      1020  
 His Gln Leu Met Ile Lys Asp Gln Ile Glu Val Met Lys Gly Asn Val  
                          1025                      1030                      1035                      1040  
 Lys Ser Arg Leu Gln Ile Tyr Tyr Gln Glu Leu Glu Lys Phe Lys Ala  
                          1045                      1050                      1055  
 Arg Trp Asp Gln Leu Lys Pro Gly Asp Asp Val Ile Glu Thr Gly Gln  
                          1060                      1065                      1070  
 His Asn Thr Leu Asp Lys Ser Ala Lys Leu Ile Lys Glu Lys Lys Ile  
                          1075                      1080                      1085

<210> 3388

<211> 352

<212> PRT

<213> Homo sapiens

<400> 3388

Met Leu Leu Pro Asp Asp Phe Lys Ala Ser Ser Lys Ile Lys Val Asn  
                          1                      5                      10                      15  
 Asn His Leu Phe His Arg Glu Asn Leu Pro Ser His Phe Lys Phe Lys  
                          20                      25                      30

Glu Tyr Cys Pro Gln Val Phe Arg Asn Leu Arg Asp Arg Phe Gly Ile  
 35 40 45  
 Asp Asp Gln Asp Tyr Leu Val Thr Leu Thr Arg Asn Pro Pro Ser Glu  
 50 55 60  
 Ser Glu Gly Ser Asp Gly Arg Phe Leu Ile Ser Tyr Asp Arg Thr Leu  
 65 70 75 80  
 Val Ile Lys Glu Val Ser Ser Glu Asp Ile Ala Asp Met His Ser Asn  
 85 90 95  
 Leu Ser Asn Tyr His Gln Tyr Ile Val Lys Cys His Gly Asn Thr Leu  
 100 105 110  
 Leu Pro Gln Phe Leu Gly Met Tyr Arg Val Ser Val Asp Asn Glu Asp  
 115 120 125  
 Ser Tyr Met Leu Val Met Arg Asn Met Phe Ser His Arg Leu Pro Val  
 130 135 140  
 His Arg Lys Tyr Asp Leu Lys Gly Ser Leu Val Ser Arg Glu Ala Ser  
 145 150 155 160  
 Asp Lys Glu Lys Val Lys Glu Leu Pro Thr Leu Lys Asp Met Asp Phe  
 165 170 175  
 Leu Asn Lys Asn Gln Lys Val Tyr Ile Gly Glu Glu Glu Lys Lys Ile  
 180 185 190  
 Phe Leu Glu Lys Leu Lys Arg Asp Val Glu Phe Leu Val Gln Leu Lys  
 195 200 205  
 Ile Met Asp Tyr Ser Leu Leu Leu Gly Ile His Asp Ile Ile Arg Gly  
 210 215 220  
 Ser Glu Pro Glu Glu Glu Ala Pro Val Arg Glu Asp Glu Ser Glu Val  
 225 230 235 240  
 Asp Gly Asp Cys Ser Leu Thr Gly Pro Pro Ala Leu Val Gly Ser Tyr  
 245 250 255  
 Gly Thr Ser Pro Glu Gly Ile Gly Gly Tyr Ile His Ser His Arg Pro

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Leu Ser His Leu Phe Pro Lys Asp Asp Pro Lys Ala Leu His Ser Ile  
                     85                    90                    95  
 Phe Gln Arg Asp Met Gly Val Glu Gly Met Glu Val Leu Ser His Leu  
                     100                    105                    110  
 Leu Leu Leu His Leu Glu Ala Pro Arg Ser Thr Asp Thr Asp His Pro  
                     115                    120                    125  
 Leu Ser Val Lys Asn Val Leu Phe Gln Glu Ala Pro Gln Leu Arg Leu  
                     130                    135                    140  
 Lys Glu Thr Ala Pro Pro Pro Gly  
                     145                    150

<210> 3390

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3390

Met Ala Cys Pro Ser Pro Val Ser Arg Arg Leu Ala Arg Ser Thr Leu  
           1                    5                    10                    15  
 Leu Leu Ile Pro Leu Phe Gly Val His Tyr Ile Met Phe Ala Phe Phe  
                     20                    25                    30  
 Pro Asp Asn Phe Lys Pro Glu Val Lys Met Val Phe Glu Leu Val Val  
                     35                    40                    45  
 Gly Ser Phe Gln Gly Phe Val Val Ala Ile Leu Tyr Cys Phe Leu Asn  
                     50                    55                    60  
 Gly Glu Val Gln Ala Glu Leu Arg Arg Lys Trp Arg Arg Trp His Leu  
                     65                    70                    75                    80  
 Gln Gly Val Leu Gly Trp Asn Pro Lys Tyr Arg His Pro Ser Gly Gly

	85		90		95
Ser Asn Gly Ala Thr Cys Ser Thr Gln Val Ser Met Leu Thr Arg Val					
	100		105		110
Ser Pro Gly Ala Arg Arg Ser Ser Ser Phe Gln Ala Glu Val Ser Leu					
	115		120		125
Val					

&lt;210&gt; 3391

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3391

Met Gly Met Lys Arg Glu His Phe Cys Tyr Leu Pro Asn Ser Trp Glu			
1	5	10	15
Pro Val Asp Ser Leu His Pro His Ala Pro Gly Leu Ala Ala Thr Gly			
	20	25	30
Leu Val Cys Val Ser Ser Met Cys Leu Phe Trp His Ile Ser Lys Val			
	35	40	45
Arg Tyr Ala Val Cys Gly Leu Val Ser Leu Ala Pro Phe Ala Glu His			
	50	55	60
Asn Val Phe Glu Val His Pro Phe Arg Ser Phe Glu Gly Cys Val Ala			
	65	70	75
Phe His Gly Val Ala Ile His Ser Cys Ala Tyr Gly Arg Leu Asp Cys			
	85	90	95
Val Gln Phe Leu Ala Thr Leu Asn Lys Ala Ser Val Asn Met Asp Ser			
	100	105	110

Leu Val Leu Glu Arg Met Tyr Val Leu Ser Leu Leu Cys Arg Cys Leu

115

120

125

Gly Val Asp Cys Trp Val Met Trp

130

135

&lt;210&gt; 3392

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3392

Met Arg Pro Leu Ala Gly Gly Leu Leu Lys Val Val Phe Val Val Phe

1

5

10

15

Ala Ser Leu Cys Ala Trp Tyr Ser Gly Tyr Leu Leu Ala Glu Leu Ile

20

25

30

Pro Asp Ala Pro Leu Ser Ser Ala Ala Tyr Ser Ile Arg Ser Ile Gly

35

40

45

Glu Arg Pro Val Leu Lys Ala Pro Val Pro Lys Arg Gln Lys Cys Asp

50

55

60

His Trp Thr Pro Cys Pro Ser Asp Thr Tyr Ala Tyr Arg Leu Leu Ser

65

70

75

80

Gly Gly Gly Arg Ser Lys Tyr Ala Lys Ile Cys Phe Glu Asp Asn Leu

85

90

95

Leu Met Gly Glu Gln Leu Gly Asn Val Ala Arg Gly Ile Asn Ile Ala

100

105

110

Ile Val Asn Tyr Val Thr Gly Asn Val Thr Ala Thr Arg Cys Phe Asp

115

120

125

Met Tyr Glu Gly Asp Asn Ser Gly Pro Met Thr Lys Phe Ile Gln Ser

130	135	140
Ala Ala Pro Lys Ser Leu Leu Phe Met Val Thr Tyr Asp Asp Gly Ser		
145	150	155
Thr Arg Leu Asn Asn Asp Ala Lys Asn Ala Ile Glu Ala Leu Gly Ser		
165	170	175
Lys Glu Ile Arg Asn Met Lys Phe Arg Ser Ser Trp Val Phe Ile Ala		
180	185	190
Ala Lys Gly Leu Glu Leu Pro Ser Glu Ile Gln Arg Glu Lys Ile Asn		
195	200	205
His Ser Asp Ala Lys Asn Asn Arg Tyr Ser Gly Trp Pro Ala Glu Ile		
210	215	220
Gln Ile Glu Gly Cys Ile Pro Lys Glu Arg Ser		
225	230	235

&lt;210&gt; 3393

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3393

Met Cys Ala Gln Asn Tyr Val Val Leu Leu Asp Ser Thr Leu Pro Arg
1 5 10 15
Ser Gln Tyr Asp Tyr Ile Leu Pro Gln Val Ser Phe Thr Ala Val Gly
20 25 30
Tyr His Lys His Ile Thr Leu Ile Phe Asn Pro Thr Arg Lys Leu Pro
35 40 45
Glu Gln Asp Ile Ala Gln Gly Ser Tyr Ile Ala Leu Pro Leu Thr Leu
50 55 60

Leu Val Leu Leu Ala Gly Tyr Asn His Asp Lys Leu Ile Pro Leu Leu  
 65                      70                      75                      80  
 Leu Gln Leu Thr Ser Arg Leu Gln Gly Val Arg Ala Leu Gly Gln Ala  
                     85                      90                      95  
 Ala Ser Asp Asn Ser Gly Pro Glu Asp Ala Lys Arg Gln Ala Lys Lys  
                     100                      105                      110  
 Gln Lys Thr Arg Arg Thr  
                     115

<210> 3394

<211> 548

<212> PRT

<213> Homo sapiens

<400> 3394

Met His Arg Leu Lys Cys Met Val Lys Ala Phe Phe Leu Thr Phe Cys  
 1                      5                      10                      15  
 Gln Val Ser Ser Glu Asp Arg Ser Ala Leu Trp Ala Leu Val Thr Phe  
                     20                      25                      30  
 Tyr Gly Gly Asp Cys Gln Leu Thr Leu Asn Lys Lys Cys Thr His Leu  
                     35                      40                      45  
 Ile Val Pro Glu Pro Lys Gly Glu Lys Tyr Glu Cys Ala Leu Lys Arg  
                     50                      55                      60  
 Ala Ser Ile Lys Ile Val Thr Pro Asp Trp Val Leu Asp Cys Val Ser  
 65                      70                      75                      80  
 Glu Lys Thr Lys Lys Asp Glu Ala Phe Tyr His Pro Arg Leu Ile Ile  
                     85                      90                      95  
 Tyr Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Val Glu Asn

100 105 110  
Glu Glu Gln Asp Ser Gln Asn Glu Gly Ser Thr Asp Glu Lys Ser Ser  
115 120 125  
Pro Ala Ser Ser Gln Glu Gly Ser Pro Ser Gly Asp Gln Gln Phe Ser  
130 135 140  
Pro Lys Ser Asn Thr Glu Lys Ser Lys Gly Glu Leu Met Phe Asp Asp  
145 150 155 160  
Ser Ser Asp Ser Ser Pro Glu Lys Gln Glu Arg Asn Leu Asn Trp Thr  
165 170 175  
Pro Ala Glu Val Pro Gln Leu Ala Ala Ala Lys Arg Arg Leu Pro Gln  
180 185 190  
Gly Lys Glu Pro Gly Leu Ile Asn Leu Cys Ala Asn Val Pro Pro Val  
195 200 205  
Pro Gly Asn Ile Leu Pro Pro Glu Val Arg Gly Asn Leu Met Ala Ala  
210 215 220  
Gly Gln Asn Leu Gln Ser Ser Glu Arg Ser Glu Met Ile Ala Thr Trp  
225 230 235 240  
Ser Pro Ala Val Arg Thr Leu Arg Asn Ile Thr Asn Asn Ala Asp Ile  
245 250 255  
Gln Gln Met Asn Arg Pro Ser Asn Val Ala His Ile Leu Gln Thr Leu  
260 265 270  
Ser Ala Pro Thr Lys Asn Leu Glu Gln Gln Val Asn His Ser Gln Gln  
275 280 285  
Gly His Thr Asn Ala Asn Ala Val Leu Phe Ser Gln Val Lys Val Thr  
290 295 300  
Pro Glu Thr His Met Leu Gln Gln Gln Gln Gln Ala Gln Gln Gln Gln  
305 310 315 320  
Gln Gln His Pro Val Leu His Leu Gln Pro Gln Gln Ile Met Gln Leu  
325 330 335

Gln Gln Gln Gln Gln Gln Gln Ile Ser Gln Gln Pro Tyr Pro Gln Gln  
340 345 350  
Pro Pro His Pro Phe Ser Gln Gln Gln Gln Gln Gln Gln Gln Ala His  
355 360 365  
Pro His Gln Phe Ser Gln Gln Gln Leu Gln Phe Pro Gln Gln Gln Leu  
370 375 380  
His Pro Pro Gln Gln Leu His Arg Pro Gln Gln Gln Leu Gln Pro Phe  
385 390 395 400  
Gln Gln Gln His Ala Leu Gln Gln Gln Phe His Gln Leu Gln Gln His  
405 410 415  
Gln Leu Gln Gln Gln Gln Leu Ala Gln Leu Gln Gln Gln His Ser Leu  
420 425 430  
Leu Gln Gln Gln Gln Gln Gln Gln Ile Gln Gln Gln Gln Leu Gln Arg  
435 440 445  
Met His Gln Gln Gln Gln Gln Gln Gln Met Gln Ser Gln Thr Ala Pro  
450 455 460  
His Leu Ser Gln Thr Ser Gln Ala Leu Gln His Gln Val Pro Pro Gln  
465 470 475 480  
Gln Pro Pro Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Ser Pro Gln  
485 490 495  
Gln His Gln Leu Phe Gly His Asp Pro Ala Val Glu Ile Pro Glu Glu  
500 505 510  
Gly Phe Leu Leu Gly Cys Val Phe Ala Ile Ala Asp Tyr Pro Glu Gln  
515 520 525  
Met Ser Asp Lys Gln Leu Leu Ala Thr Trp Lys Arg Val Arg Leu Cys  
530 535 540  
Leu Glu Glu Gly  
545

&lt;210&gt; 3395

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3395

Met Gly Ser Leu Met Ala Glu Met Val Val Lys Pro Thr Met Ser Leu

1 5 10 15

Lys Tyr Ser Val Thr Cys Ser Lys Tyr Ser Gly Ser Thr Gly Val Pro

20 25 30

Val Phe Lys Ala Ser Ala Thr Asp Leu Gly Met Ala Gly Ser Glu Val

35 40 45

Thr Trp Gly Pro Leu Tyr Leu Ala Gly Leu Gln Leu Pro Ser Gln Pro

50 55 60

Thr Pro Ser His Trp His Pro Arg Arg Gln His Leu Cys Lys Gln Pro

65 70 75 80

Val Cys Leu Leu Leu Phe Gln Leu Gln Leu Leu Arg Ala Leu Pro Asp

85 90 95

Gln Ile Leu Gln Val Thr Arg Val Leu Leu Gln His Pro Lys His Arg

100 105 110

Val Asn Asp Val Arg Leu Pro Ala Leu Val Asp Val Leu Glu Leu Ala

115 120 125

Val Glu Gly Ser Trp

130

&lt;210&gt; 3396

&lt;211&gt; 548

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3396

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Met Gln Pro Gly Leu Ser Pro Gly Ser Pro Gly Asp Pro Arg Pro Pro
  1             5             10             15
Thr Pro Glu Thr Asp Tyr Pro Glu Ser Leu Thr Ser Tyr Pro Glu Glu
      20             25             30
Asp Tyr Ser Pro Val Gly Ser Phe Gly Glu Pro Gly Pro Thr Ser Pro
      35             40             45
Leu Thr Thr Pro Pro Gly Trp Ser Cys His Val Ser Gln Asp Lys Gln
      50             55             60
Met Leu Tyr Thr Asn His Phe Thr Gln Glu Gln Trp Val Arg Leu Glu
      65             70             75             80
Asp Pro His Gly Lys Pro Tyr Phe Tyr Asn Pro Glu Asp Ser Ser Val
      85             90             95
Arg Trp Glu Leu Pro Gln Val Pro Val Pro Ala Pro Arg Ser Ile His
      100            105            110
Lys Ser Ser Gln Asp Gly Asp Thr Pro Ala Gln Ala Ser Pro Pro Glu
      115            120            125
Glu Lys Val Pro Ala Glu Leu Asp Glu Val Gly Ser Trp Glu Glu Val
      130            135            140
Ser Pro Ala Thr Ala Ala Val Arg Thr Lys Thr Leu Asp Lys Ala Gly
      145            150            155            160
Val Leu His Arg Thr Lys Thr Ala Asp Lys Gly Lys Arg Leu Arg Lys
      165            170            175
Lys His Trp Ser Ala Ser Trp Thr Val Leu Glu Gly Gly Val Leu Thr
      180            185            190
Phe Phe Lys Asp Ser Lys Thr Ser Ala Ala Gly Gly Leu Arg Gln Pro

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195	200	205
Ser Lys Phe Ser Thr Pro Glu Tyr Thr Val Glu Leu Arg Gly Ala Thr		
210	215	220
Leu Ser Trp Ala Pro Lys Asp Lys Ser Ser Arg Lys Asn Val Leu Glu		
225	230	235
Leu Arg Ser Arg Asp Gly Ser Glu Tyr Leu Ile Gln His Asp Ser Glu		
245	250	255
Ala Ile Ile Ser Thr Trp His Lys Ala Ile Ala Gln Gly Ile Gln Glu		
260	265	270
Leu Ser Ala Glu Leu Pro Pro Glu Glu Ser Glu Ser Ser Arg Val Asp		
275	280	285
Phe Gly Ser Ser Glu Arg Leu Gly Ser Trp Gln Glu Lys Glu Glu Asp		
290	295	300
Ala Arg Pro Asn Ala Ala Ala Pro Ala Leu Gly Pro Val Gly Leu Glu		
305	310	315
Ser Asp Leu Ser Lys Val Arg His Lys Leu Arg Lys Phe Leu Gln Arg		
325	330	335
Arg Pro Thr Leu Gln Ser Leu Arg Glu Lys Gly Tyr Ile Lys Asp Gln		
340	345	350
Val Phe Gly Cys Ala Leu Ala Ala Leu Cys Glu Arg Glu Arg Ser Arg		
355	360	365
Val Pro Arg Phe Val Gln Gln Cys Ile Arg Ala Val Glu Ala Arg Gly		
370	375	380
Leu Asp Ile Asp Gly Leu Tyr Arg Ile Ser Gly Asn Leu Ala Thr Ile		
385	390	395
Gln Lys Leu Arg Tyr Lys Val Asp His Asp Glu Arg Leu Asp Leu Asp		
405	410	415
Asp Gly Arg Trp Glu Asp Val His Val Ile Thr Gly Ala Leu Lys Leu		
420	425	430

Phe Phe Arg Glu Leu Pro Glu Pro Leu Phe Pro Phe Ser His Phe Arg  
 435 440 445  
 Gln Phe Ile Ala Ala Ile Lys Leu Gln Asp Gln Ala Arg Arg Ser Arg  
 450 455 460  
 Cys Val Arg Asp Leu Val Arg Ser Leu Pro Ala Pro Asn His Asp Thr  
 465 470 475 480  
 Leu Arg Met Leu Phe Gln His Leu Cys Arg Val Ile Glu His Gly Glu  
 485 490 495  
 Gln Asn Arg Met Ser Val Gln Ser Val Ala Ile Val Phe Gly Pro Thr  
 500 505 510  
 Leu Leu Arg Pro Glu Val Glu Glu Thr Ser Met Pro Met Thr Met Val  
 515 520 525  
 Phe Gln Asn Gln Val Val Glu Leu Ile Leu Gln Gln Cys Ala Asp Ile  
 530 535 540  
 Phe Pro Pro His  
 545

&lt;210&gt; 3397

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3397

Met Met Asp Ala Ser Lys Glu Leu Gln Val Leu His Ile Asp Phe Leu  
 1 5 10 15  
 Asn Gln Asp Asn Ala Val Ser His His Thr Trp Glu Phe Gln Thr Ser  
 20 25 30  
 Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu

35                      40                      45  
 Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr  
 50                      55                      60  
 Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro  
 65                      70                      75                      80  
 Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu  
 85                      90                      95  
 Ser Gly Lys Glu Val Ser Thr His Trp Ala Gly Gly Trp Ala Gly Trp  
 100                      105                      110  
 Leu Leu Ala Glu Cys Ser  
 115

<210> 3398

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3398

Met Pro Gly Ala Glu Met Trp Thr Glu Gly Asp Phe Ser Ala Ser Leu  
 1                      5                      10                      15  
 Ala Gly Ala Cys Ser Lys Leu Ala Asp Ala Leu Cys Ala Cys Trp Ala  
 20                      25                      30  
 Arg Ser Pro Ser Ser Gly Glu Ala Leu Gly Leu Glu Gln Leu Gly Leu  
 35                      40                      45  
 Ser Trp Leu Leu Thr Pro Glu Pro Gly Ser Leu Leu Val Leu His Tyr  
 50                      55                      60  
 Leu Ala Thr Ser Ala Gln Gly Pro Asp Lys Arg Tyr Cys Leu Arg Ala  
 65                      70                      75                      80

Thr Glu Asp Thr Gly Ala Gln Ser Trp Thr Thr Gly Pro Gly Pro Gly  
85 90 95  
Arg Thr Arg Arg Ser Arg Pro Ser Ala Ala Leu Trp Gly Arg Ser Pro  
100 105 110  
Trp Gly Cys  
115

<210> 3399

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3399

Met Leu Gln Phe Pro Gly Phe Leu Val Leu Ile Ile Pro Pro Arg Ser  
1 5 10 15  
Cys Leu Leu Gln Arg Ser Thr Val Gln Gln Glu Ala Glu Pro Met Pro  
20 25 30  
Leu Arg Gly Trp Arg Tyr Cys Ile Leu Pro Lys Ile Pro Ala Ser His  
35 40 45  
Ser Asn Asn Glu Pro Asn Ser Ala Glu Glu Leu Trp Ala Val Val Ser  
50 55 60  
Lys Thr Gln Ala Tyr Ser Leu Pro Pro Leu Pro Phe Leu Phe Arg Pro  
65 70 75 80  
Val Leu Thr Lys Arg Ile Leu Ala Leu Gln Ile Val Leu Tyr Phe Asp  
85 90 95  
Ala Phe Arg Ile Asn Ile  
100

&lt;210&gt; 3400

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3400

Met Glu Val Val Val Ile His Ser Ser Pro Met Ser Arg Arg Arg Tyr

1 5 10 15

Ser Phe Leu His Leu Trp Glu Cys Gly Ser Gly Trp Leu Pro Val Asp

20 25 30

Ser Pro Pro Arg Thr Gly Leu Gly His Arg Cys Cys Leu Ala Gln Gly

35 40 45

His Val Pro Ser Pro Arg Ser Ser His Thr Lys Trp Leu Ser Cys Val

50 55 60

His Gln Gly Ser Thr Thr Leu Gly Ala Thr Thr Ala Pro Gly Leu Pro

65 70 75 80

Val Gly Trp Leu Gly Pro Leu Leu Cys Met His His Ser Pro Thr Ser

85 90 95

Leu Gly Pro Ile Leu Lys Ala Val Leu His Lys Ala Phe Thr Cys Asn

100 105 110

Leu Arg Ala Ser Glu Ser Val Pro Trp Gly Ser

115 120

&lt;210&gt; 3401

&lt;211&gt; 443

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3401

Met Gly Ser Pro Ala His Arg Pro Ala Leu Leu Leu Leu Leu Pro Pro  
 1 5 10 15  
 Leu Leu Leu Leu Leu Leu Arg Val Pro Pro Ser Arg Ser Phe Pro Asp  
 20 25 30  
 Thr Pro Trp Cys Ser Pro Ile Lys Val Lys Tyr Gly Asp Val Tyr Cys  
 35 40 45  
 Arg Ala Pro Gln Gly Gly Tyr Tyr Lys Thr Ala Leu Gly Thr Arg Cys  
 50 55 60  
 Asp Ile Arg Cys Gln Lys Gly Tyr Glu Leu His Gly Ser Ser Leu Leu  
 65 70 75 80  
 Ile Cys Gln Ser Asn Lys Arg Trp Ser Asp Lys Val Ile Cys Lys Gln  
 85 90 95  
 Lys Arg Cys Pro Thr Leu Ala Met Pro Ala Asn Gly Gly Phe Lys Cys  
 100 105 110  
 Val Asp Gly Ala Tyr Phe Asn Ser Arg Cys Glu Tyr Tyr Cys Ser Pro  
 115 120 125  
 Gly Tyr Thr Leu Lys Gly Glu Arg Thr Val Thr Cys Met Asp Asn Lys  
 130 135 140  
 Ala Trp Ser Gly Arg Pro Ala Ser Cys Val Asp Met Glu Pro Pro Arg  
 145 150 155 160  
 Ile Lys Cys Pro Ser Val Lys Glu Arg Ile Ala Glu Pro Asn Lys Leu  
 165 170 175  
 Thr Val Arg Val Ser Trp Glu Thr Pro Glu Gly Arg Asp Thr Ala Asp  
 180 185 190  
 Gly Ile Leu Thr Asp Val Ile Leu Lys Gly Leu Pro Pro Gly Ser Asn  
 195 200 205  
 Phe Pro Glu Gly Asp His Lys Ile Gln Tyr Thr Val His Asp Arg Ala

210	215	220
Glu Asn Lys Gly Thr Cys Lys Phe Arg Val Lys Val Arg Val Lys Arg		
225	230	235
Cys Gly Lys Leu Asn Ala Pro Glu Asn Gly Tyr Met Lys Cys Ser Ser		240
245	250	255
Asp Gly Asp Asn Tyr Gly Ala Thr Cys Glu Phe Ser Cys Ile Gly Gly		
260	265	270
Tyr Glu Leu Gln Gly Ser Pro Ala Arg Val Cys Gln Ser Asn Leu Ala		
275	280	285
Trp Ser Gly Thr Glu Pro Thr Cys Ala Ala Met Asn Val Asn Val Gly		
290	295	300
Val Arg Thr Ala Ala Ala Leu Leu Asp Gln Phe Tyr Glu Lys Arg Arg		
305	310	315
Leu Leu Ile Val Ser Thr Pro Thr Ala Arg Asn Leu Leu Tyr Arg Leu		
325	330	335
Gln Leu Gly Met Leu Gln Gln Ala Gln Cys Gly Leu Asp Leu Arg His		
340	345	350
Ile Thr Val Val Glu Leu Val Gly Val Phe Pro Thr Leu Ile Gly Arg		
355	360	365
Ile Gly Ala Lys Ile Met Pro Pro Ala Leu Ala Leu Gln Leu Arg Leu		
370	375	380
Leu Leu Arg Ile Pro Leu Tyr Ser Phe Ser Met Val Leu Val Asp Lys		
385	390	395
His Gly Met Asp Lys Glu Arg Tyr Val Ser Leu Val Met Pro Val Ala		
405	410	415
Leu Phe Asn Leu Ile Asp Thr Phe Pro Leu Arg Lys Glu Glu Met Val		
420	425	430
Leu Gln Ala Glu Met Ser Gln Thr Cys Asn Thr		
435	440	

&lt;210&gt; 3402

&lt;211&gt; 555

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3402

Met Gly Lys Trp Arg Pro Gly Gln Gly His Thr Thr Gly Ser Val Lys

1 5 10 15

Pro Leu Ser Arg Ser Asp Ala Met Glu Leu Asp Leu Ser Pro Pro His

20 25 30

Leu Ser Ser Ser Pro Glu Asp Leu Cys Pro Ala Pro Gly Thr Pro Pro

35 40 45

Gly Thr Pro Arg Pro Pro Asp Thr Pro Leu Pro Glu Glu Val Lys Arg

50 55 60

Ser Gln Pro Leu Leu Ile Pro Thr Thr Gly Arg Lys Leu Arg Glu Glu

65 70 75 80

Glu Arg Arg Ala Thr Ser Leu Pro Ser Ile Pro Asn Pro Phe Pro Glu

85 90 95

Leu Cys Ser Pro Pro Ser Gln Ser Pro Ile Leu Gly Gly Pro Ser Ser

100 105 110

Ala Arg Gly Leu Leu Pro Arg Asp Ala Ser Arg Pro His Val Val Lys

115 120 125

Val Tyr Ser Glu Asp Gly Ala Cys Arg Ser Val Glu Val Ala Thr Gly

130 135 140

Ala Thr Ala Arg His Val Cys Glu Met Leu Val Gln Arg Ala His Ala

145 150 155 160

Leu Ser Asp Glu Thr Trp Gly Leu Val Glu Cys His Pro His Leu Ala

165	170	175
Leu Glu Arg Gly Leu Glu Asp His Glu Ser Val Val Glu Val Gln Ala		
180	185	190
Ala Trp Pro Val Gly Gly Asp Ser Arg Phe Val Phe Arg Lys Asn Phe		
195	200	205
Ala Lys Tyr Glu Leu Phe Lys Ser Ser Pro His Ser Leu Phe Pro Glu		
210	215	220
Lys Met Val Ser Ser Cys Leu Asp Ala His Thr Gly Ile Ser His Glu		
225	230	235
240		
Asp Leu Ile Gln Asn Phe Leu Asn Ala Gly Ser Phe Pro Glu Ile Gln		
245	250	255
Gly Phe Leu Gln Leu Arg Gly Ser Gly Arg Lys Leu Trp Lys Arg Phe		
260	265	270
Phe Cys Phe Leu Arg Arg Ser Gly Leu Tyr Tyr Ser Thr Lys Gly Thr		
275	280	285
Ser Lys Asp Pro Arg His Leu Gln Tyr Val Ala Asp Val Asn Glu Ser		
290	295	300
Asn Val Tyr Val Val Thr Gln Gly Arg Lys Leu Tyr Gly Met Pro Thr		
305	310	315
320		
Asp Phe Gly Phe Cys Val Lys Pro Asn Lys Leu Arg Asn Gly His Lys		
325	330	335
Gly Leu Arg Ile Phe Cys Ser Glu Asp Glu Gln Ser Arg Thr Cys Trp		
340	345	350
Leu Ala Ala Phe Arg Leu Phe Lys Tyr Gly Val Gln Leu Tyr Lys Asn		
355	360	365
Tyr Gln Gln Ala Gln Ser Arg His Leu His Pro Ser Cys Leu Gly Ser		
370	375	380
Pro Pro Leu Arg Ser Ala Ser Asp Asn Thr Leu Val Ala Met Asp Phe		
385	390	395
400		

Ser Gly His Ala Gly Arg Val Ile Glu Asn Pro Arg Glu Ala Leu Ser

405

410

415

Val Ala Leu Glu Glu Ala Gln Ala Trp Arg Lys Lys Thr Asn His Arg

420

425

430

Leu Ser Leu Pro Met Pro Ala Ser Gly Thr Ser Leu Ser Ala Ala Ile

435

440

445

His Arg Thr Gln Leu Trp Phe His Gly Arg Ile Ser Arg Glu Glu Ser

450

455

460

Gln Arg Leu Ile Gly Gln Gln Gly Leu Val Asp Gly Leu Phe Leu Val

465

470

475

480

Arg Glu Ser Gln Arg Asn Pro Gln Gly Phe Val Leu Ser Leu Cys His

485

490

495

Leu Gln Lys Val Lys His Tyr Leu Ile Leu Pro Ser Glu Glu Glu Gly

500

505

510

Arg Leu Tyr Phe Ser Met Asp Asp Gly Gln Thr Arg Phe Thr Asp Leu

515

520

525

Leu Gln Leu Val Glu Phe His Gln Leu Asn Arg Gly Ile Leu Pro Cys

530

535

540

Leu Leu Arg His Cys Cys Thr Arg Val Ala Leu

545

550

555

<210> 3403

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3403

Met Lys Ser Arg Leu Arg Arg Ser Gln Met Glu Met Arg Asp Leu Leu

1	5	10	15												
Gly	Pro	Gly	Val	Lys	Val	Thr	Phe	Val	Arg	Thr	Leu	Trp	Leu	Glu	Thr
	20		25		30										
Leu	Cys	Pro	Cys	Pro	Arg	Asn	Leu	Trp	Asn	Phe	Glu	Leu	Glu	Ser	Glu
	35		40		45										
Asp	Leu	Gly	Tyr	Leu	Ala	Glu	Glu	Ile	Ser	Lys	Gln	Gln	Ser	Val	Gln
	50		55		60										
Asp	Val	Ala	Trp	Leu	Leu	Leu	Val	Val	Cys	Ala	His	Ile	Cys	Glu	Gln
	65		70		75										80
Arg	His	Asp	Lys	Lys	Leu	Glu	Leu	Ile	Phe	Lys	Lys	Glu	Ala	Glu	Cys
	85		90		95										
Lys	Ser	Leu	Glu	Asn	Leu	Gln	Pro	Gly	His	Val	Val	Glu	Lys	Lys	Lys
	100		105		110										
Asn	His	Phe	Leu	Glu	Arg	Asn	Ser	Ser							
	115		120												

&lt;210&gt; 3404

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3404

Met	Pro	Leu	His	Thr	Leu	Leu	Ile	Phe	Pro	Val	Met	Ser	Ser	Gly	Ala
1	5	10	15												
Leu	Leu	Leu	Ala	Val	Ala	Tyr	Lys	Ala	Ser	Trp	Ser	Gly	Ser	Lys	Ala
	20		25		30										
Trp	Gln	Ser	Leu	Ser	Gln	Gly	Lys	Leu	Gln	Ala	Ala	Asn	Ser	Pro	His
	35		40		45										

Gly Ser Ser Pro Ser Leu Pro Ala Gln Ser Pro Gly Gln Gly Pro Pro  
 50 55 60  
 Arg Lys Ala Leu Val Glu Asn Leu Cys Met Lys Ala Val Asn Gln Ser  
 65 70 75 80  
 Ile Gly Lys Pro Gly Cys Leu Gln Leu Gly Gly Gln Thr Gly Trp Arg  
 85 90 95  
 Arg Gly Glu Glu Glu Arg Gly Leu Pro Ala Leu Ser Pro Thr  
 100 105 110

<210> 3405

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3405

Met Thr Arg Gly Thr Gln Gly Leu Pro Met Thr Met Gly Pro Arg Gly  
 1 5 10 15  
 Arg His Leu Ala Gln Gly Pro Val Leu Glu Thr Asp Asp Pro Arg Arg  
 20 25 30  
 Arg Arg Gln Gly Arg Arg Glu Ala Gly Arg Ala Gly Met Val Ser Gln  
 35 40 45  
 Ala Glu Gly Arg Thr Arg Thr Arg Met Glu Leu Gly Asn Asp Pro Gly  
 50 55 60  
 Val Phe Gly Gly Cys Arg Trp Val Arg Met Ala Val Gln Gly Gly Lys  
 65 70 75 80  
 Gly Cys Val Ala Gly Glu Gln Pro Gly Glu Ala Gln Thr Leu Leu Lys  
 85 90 95  
 Arg Cys Leu Leu Cys Arg Pro Pro His Pro Leu Pro Ala Pro Ser Gly

100 105 110  
Ala Pro Ala Pro Pro Cys Ser Ala  
115 120

<210> 3406

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3406

Met Arg Glu Val Gly Glu Ala Arg Glu Ala His Gly Ala Pro Ala Gln  
1 5 10 15  
Ala Pro His Thr Pro Ser Val Val Thr Val Ala His Glu Val Asn Ser  
20 25 30  
Pro Pro Pro Leu Gly Glu Lys Glu Ala Ala Trp Ala Ala Thr Cys Ser  
35 40 45  
Pro Ala Leu Pro Pro Pro Thr Ala Leu Met Asp Pro Ser Leu Pro Gly  
50 55 60  
Gly His Cys Phe Val Gly Phe Ser Pro Phe Val Gly Lys Gly Arg Cys  
65 70 75 80  
Pro Ala Gly Leu Gly Leu Val Arg Glu Glu Ser Arg Ala Leu Glu Arg  
85 90 95  
Gly Ala Gln His  
100

<210> 3407

<211> 258

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3407

Met	Ala	Ser	Leu	Leu	Phe	Leu	Val	Val	Asn	Leu	Thr	Cys	Ala	Met	Leu
1			5						10					15	
Val	His	Gly	Asp	Val	Pro	Glu	Asn	Gln	Leu	Lys	Trp	Thr	Val	Phe	Val
			20					25					30		
Arg	Ala	Leu	Ile	Asn	Asp	Ser	Leu	Phe	Ile	Leu	Cys	Ala	Ile	Ser	Leu
		35					40					45			
Val	Cys	Tyr	Ile	Cys	Lys	Ile	Thr	Lys	Met	Ser	Ser	Ala	Asn	Val	Tyr
	50					55					60				
Leu	Glu	Ser	Lys	Gly	Met	Ser	Leu	Cys	Gln	Thr	Val	Val	Val	Gly	Ser
65				70					75					80	
Val	Val	Ile	Leu	Leu	Tyr	Ser	Ser	Arg	Ala	Cys	Tyr	Asn	Leu	Val	Val
			85						90				95		
Val	Thr	Ile	Ser	Gln	Asp	Thr	Leu	Glu	Ser	Pro	Phe	Asn	Tyr	Gly	Trp
		100						105					110		
Asp	Asn	Leu	Ser	Asp	Lys	Ala	His	Val	Glu	Asp	Ile	Ser	Gly	Glu	Glu
		115					120						125		
Tyr	Ile	Val	Phe	Gly	Met	Val	Leu	Phe	Leu	Trp	Glu	His	Val	Pro	Ala
	130					135				140					
Trp	Ser	Val	Val	Leu	Phe	Phe	Arg	Ala	Gln	Arg	Leu	Asn	Gln	Asn	Leu
145				150					155					160	
Ala	Pro	Ala	Gly	Met	Ile	Asn	Ser	His	Ser	Tyr	Ser	Ser	Arg	Ala	Tyr
			165					170					175		
Phe	Phe	Asp	Asn	Pro	Arg	Arg	Tyr	Asp	Ser	Asp	Asp	Asp	Leu	Pro	Arg
		180						185					190		
Leu	Gly	Ser	Ser	Arg	Glu	Gly	Ser	Leu	Pro	Asn	Ser	Gln	Ser	Leu	Gly

195	200	205
Trp Tyr Gly Thr Met Thr Gly Cys Gly Ser Ser Ser Tyr Thr Val Thr		
210	215	220
Pro His Leu Asn Gly Pro Met Thr Asp Thr Ala Pro Leu Leu Phe Thr		
225	230	235
Cys Ser Asn Leu Asp Leu Asn Asn His His Ser Leu Tyr Val Thr Pro		
245	250	255
Gln Asn		

&lt;210&gt; 3408

&lt;211&gt; 199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3408

Met Ser Ala Thr Leu Arg Glu Arg Leu Arg Lys Thr Arg Phe Ser Phe		
1	5	10
Asn Ser Ser Tyr Asn Val Val Lys Arg Leu Lys Val Glu Ser Glu Glu		
20	25	30
Asn Asp Gln Thr Phe Ser Glu Lys Pro Ala Ser Ser Thr Glu Glu Asn		
35	40	45
Cys Leu Glu Phe Gln Glu Ser Phe Lys His Ile Asp Ser Glu Phe Glu		
50	55	60
Glu Asn Thr Asn Leu Lys Asn Thr Leu Lys Asn Leu Asn Val Cys Glu		
65	70	75
Ser Gln Ser Leu Asp Ser Gly Ser Cys Ser Ala Leu Gln Asn Glu Phe		
85	90	95

Val Ser Glu Lys Leu Pro Lys Gln Arg Leu Asn Ala Glu Lys Ala Lys  
 100 105 110  
 Leu Val Lys Gln Val Gln Glu Lys Glu Asp Leu Leu Arg Arg Leu Lys  
 115 120 125  
 Leu Val Lys Met Tyr Arg Ser Lys Asn Asp Leu Ser Gln Leu Gln Leu  
 130 135 140  
 Leu Ile Lys Lys Trp Arg Ser Cys Ser Gln Leu Leu Leu Tyr Glu Leu  
 145 150 155 160  
 Gln Ser Ala Val Ser Glu Glu Asn Lys Lys Leu Ser Leu Thr Gln Leu  
 165 170 175  
 Ile Asp His Tyr Gly Leu Asp Asp Arg Leu Leu His Tyr Asn Arg Ser  
 180 185 190  
 Glu Glu Glu Phe Ile Asp Val  
 195

&lt;210&gt; 3409

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3409

Met Pro Lys Gly Gly Cys Pro Lys Ala Pro Gln Gln Glu Glu Leu Pro  
 1 5 10 15  
 Leu Ser Ser Asp Met Val Glu Lys Gln Thr Gly Lys Lys Asp Lys Asp  
 20 25 30  
 Lys Val Ser Leu Thr Lys Thr Pro Lys Leu Glu Arg Gly Asp Gly Gly  
 35 40 45  
 Lys Glu Val Arg Glu Arg Ala Ser Lys Arg Lys Leu Pro Phe Thr Ala

50	55	60	
Gly Ala Asn Gly Glu Gln Lys Asp Ser Asp Thr Gly Pro Pro Gly Ser			
65	70	75	80
Cys Leu Ser Trp Gly Ser His Glu Gly Ala Leu Val Arg Ser Ala Met			
	85	90	95
Gly Arg Ser Cys Leu Pro Ser Ala Arg Gly Cys Phe Phe Gly Thr Arg			
100	105	110	
Gly Lys Ile Met Ile Phe Leu Phe Cys Phe Asp Leu			
115	120		

&lt;210&gt; 3410

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3410

Met Pro Phe Ala Glu Asp Lys Thr Tyr Lys Tyr Ile Cys Arg Asn Phe			
1	5	10	15
Ser Asn Phe Cys Asn Val Asp Val Val Glu Ile Leu Pro Tyr Leu Pro			
	20	25	30
Cys Leu Thr Ala Arg Asp Gln Asp Arg Leu Arg Ala Thr Cys Thr Leu			
35	40	45	
Ser Gly Asn Arg Asp Thr Leu Trp His Leu Phe Asn Thr Leu Gln Leu			
50	55	60	
Pro Thr Trp Ala Gly Glu Glu Thr Pro Gly Gly Gln Ser Ser Gly Arg			
65	70	75	80
Gly Leu Asp Phe Ser Ser Leu Thr Ser Gly Ala Val Trp Leu Trp Gln			
	85	90	95

Met Ser Asp Phe Trp Ser Cys Phe Ser Thr Trp Thr Val Ser Ile Trp  
 100 105 110  
 Leu Ile Leu His Trp Val Leu Leu Arg Leu Asn Leu Gln Val Phe Ala  
 115 120 125  
 Lys Cys Leu Ala Gln Ser Lys Trp Pro Leu Leu Leu Pro Ser Leu Ser  
 130 135 140  
 Cys Pro Thr Trp  
 145

<210> 3411

<211> 527

<212> PRT

<213> Homo sapiens

<400> 3411

Met Leu Ala Lys Pro His Gln Arg Leu Thr Lys Tyr Pro Leu Leu Leu  
 1 5 10 15  
 Lys Ser Val Leu Arg Lys Thr Glu Glu Pro Arg Ala Lys Glu Ala Val  
 20 25 30  
 Val Ala Met Ile Gly Ser Val Glu Arg Phe Ile His His Val Asn Ala  
 35 40 45  
 Cys Met Arg Gln Arg Gln Glu Arg Gln Arg Leu Ala Ala Val Val Ser  
 50 55 60  
 Arg Ile Asp Ala Tyr Glu Val Val Glu Ser Ser Ser Asp Glu Val Asp  
 65 70 75 80  
 Lys Leu Leu Lys Glu Phe Leu His Leu Asp Leu Thr Ala Pro Ile Pro  
 85 90 95  
 Gly Ala Ser Pro Glu Glu Thr Arg Gln Leu Leu Leu Glu Gly Ser Leu

100 105 110  
Arg Met Lys Glu Gly Lys Asp Ser Lys Met Asp Val Tyr Cys Phe Leu  
115 120 125  
Phe Thr Asp Leu Leu Leu Val Thr Lys Ala Val Lys Lys Ala Glu Arg  
130 135 140  
Thr Arg Val Ile Arg Pro Pro Leu Leu Val Asp Lys Ile Val Cys Arg  
145 150 155 160  
Glu Leu Arg Asp Pro Gly Ser Phe Leu Leu Ile Tyr Leu Asn Glu Phe  
165 170 175  
His Ser Ala Val Gly Ala Tyr Thr Phe Gln Ala Ser Gly Gln Ala Leu  
180 185 190  
Cys Arg Gly Trp Val Asp Thr Ile Tyr Asn Ala Gln Asn Gln Leu Gln  
195 200 205  
Gln Leu Arg Ala Gln Glu Pro Pro Gly Ser Gln Gln Pro Leu Gln Ser  
210 215 220  
Leu Glu Glu Glu Glu Asp Glu Gln Glu Glu Glu Glu Glu Glu Glu  
225 230 235 240  
Glu Glu Glu Glu Gly Glu Asp Ser Gly Thr Ser Ala Ala Ser Ser Pro  
245 250 255  
Thr Ile Met Arg Lys Ser Ser Gly Ser Pro Asp Ser Gln His Cys Ala  
260 265 270  
Ser Asp Gly Ser Thr Glu Thr Leu Ala Met Val Val Val Glu Pro Gly  
275 280 285  
Asp Thr Leu Ser Ser Pro Glu Phe Asp Ser Gly Pro Phe Ser Ser Gln  
290 295 300  
Ser Asp Glu Thr Ser Leu Ser Thr Thr Ala Ser Ser Ala Thr Pro Thr  
305 310 315 320  
Ser Glu Leu Leu Pro Leu Gly Pro Val Asp Gly Arg Ser Cys Ser Met  
325 330 335

Asp Ser Ala Tyr Gly Thr Leu Ser Pro Thr Ser Leu Gln Asp Phe Val  
340 345 350  
Ala Pro Gly Pro Met Ala Glu Leu Val Pro Arg Ala Pro Glu Ser Pro  
355 360 365  
Arg Val Pro Ser Pro Pro Pro Ser Pro Arg Leu Arg Arg Arg Thr Pro  
370 375 380  
Val Gln Leu Leu Ser Cys Pro Pro His Leu Leu Lys Ser Lys Ser Glu  
385 390 395 400  
Ala Ser Leu Leu Gln Leu Leu Ala Gly Ala Gly Thr His Gly Thr Pro  
405 410 415  
Ser Ala Pro Ser Arg Ser Leu Ser Glu Leu Cys Leu Ala Val Pro Ala  
420 425 430  
Pro Gly Ile Arg Thr Gln Gly Ser Pro Gln Glu Ala Gly Pro Ser Trp  
435 440 445  
Asp Cys Arg Gly Ala Pro Ser Pro Gly Ser Gly Pro Gly Leu Val Gly  
450 455 460  
Cys Leu Ala Gly Glu Pro Ala Gly Ser His Arg Lys Arg Cys Gly Asp  
465 470 475 480  
Leu Pro Ser Gly Ala Ser Pro Arg Val Gln Pro Glu Pro Pro Pro Gly  
485 490 495  
Val Ser Ala Gln His Arg Lys Leu Thr Leu Ala Gln Leu Tyr Arg Ile  
500 505 510  
Arg Thr Thr Leu Leu Leu Asn Ser Thr Leu Thr Ala Ser Glu Val  
515 520 525

&lt;210&gt; 3412

&lt;211&gt; 632

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3412

Met Trp Leu Lys Pro Glu Glu Val Leu Leu Lys Asn Ala Leu Lys Leu  
 1 5 10 15  
 Trp Leu Met Glu Arg Ser Asn Asp Tyr Phe Val Leu Gln Arg Arg Arg  
 20 25 30  
 Gly Tyr Gly Glu Glu Gly Gly Gly Gly Leu Thr Gly Leu Leu Val Gly  
 35 40 45  
 Thr Leu Asp Ser Val Leu Asp Ser Thr Ala Lys Val Ala Pro Phe Arg  
 50 55 60  
 Ile Leu His Gln Thr Pro Asp Ser Gln Val Tyr Leu Ser Ile Ala Cys  
 65 70 75 80  
 Gly Ala Asn Arg Glu Glu Ile Thr Lys His Trp Asp Trp Leu Glu Gln  
 85 90 95  
 Asn Ile Met Lys Thr Leu Ser Val Phe Asp Ser Asn Glu Asp Ile Thr  
 100 105 110  
 Asn Phe Val Gln Gly Lys Ile Arg Gly Leu Ile Ala Glu Glu Gly Lys  
 115 120 125  
 His Cys Phe Ala Lys Glu Asp Asp Pro Glu Lys Phe Arg Glu Ala Leu  
 130 135 140  
 Leu Lys Phe Glu Lys Cys Phe Gly Leu Pro Glu Lys Glu Lys Leu Val  
 145 150 155 160  
 Thr Tyr Tyr Ser Cys Ser Tyr Trp Lys Gly Arg Val Pro Cys Gln Gly  
 165 170 175  
 Trp Leu Tyr Leu Ser Thr Asn Phe Leu Ser Phe Tyr Ser Phe Leu Leu  
 180 185 190  
 Gly Ser Glu Ile Lys Leu Ile Ile Ser Trp Asp Glu Val Ser Lys Leu  
 195 200 205

Glu Lys Thr Ser Asn Val Ile Leu Thr Glu Ser Ile His Val Cys Ser  
210 215 220  
Gln Gly Glu Asn His Tyr Phe Ser Met Phe Leu His Ile Asn Gln Thr  
225 230 235 240  
Tyr Leu Leu Met Glu Gln Leu Ala Asn Tyr Ala Ile Arg Arg Leu Phe  
245 250 255  
Asp Lys Glu Thr Phe Asp Asn Asp Pro Val Leu Tyr Asn Pro Leu Gln  
260 265 270  
Ile Thr Lys Arg Gly Leu Glu Asn Arg Ala His Ser Glu Gln Phe Asn  
275 280 285  
Ala Phe Phe Arg Leu Pro Lys Gly Glu Ser Leu Lys Glu Val His Glu  
290 295 300  
Cys Phe Leu Trp Val Pro Phe Ser His Phe Asn Thr His Gly Lys Met  
305 310 315 320  
Cys Ile Ser Glu Asn Tyr Ile Cys Phe Ala Ser Gln Asp Gly Asn Gln  
325 330 335  
Cys Ser Val Ile Ile Pro Leu Arg Glu Val Leu Ala Ile Asp Lys Thr  
340 345 350  
Asn Asp Ser Ser Lys Ser Val Ile Ile Ser Ile Lys Gly Lys Thr Ala  
355 360 365  
Phe Arg Phe His Glu Val Lys Asp Phe Glu Gln Leu Val Ala Lys Leu  
370 375 380  
Arg Leu Arg Cys Gly Ala Ala Ser Thr Gln Tyr His Asp Ile Ser Thr  
385 390 395 400  
Glu Leu Ala Ile Ser Ser Glu Ser Thr Glu Pro Ser Asp Asn Phe Glu  
405 410 415  
Val Gln Ser Leu Thr Ser Gln Arg Glu Cys Ser Lys Thr Val Asn Thr  
420 425 430  
Glu Ala Leu Met Thr Val Phe His Pro Gln Asn Leu Glu Thr Leu Asn

435                      440                      445  
 Ser Lys Met Leu Lys Glu Lys Met Lys Glu Gln Ser Trp Lys Ile Leu  
 450                      455                      460  
 Phe Ala Glu Cys Gly Arg Gly Val Ser Met Phe Arg Thr Lys Lys Thr  
 465                      470                      475                      480  
 Arg Asp Leu Val Val Arg Gly Ile Pro Glu Thr Leu Arg Gly Glu Leu  
                          485                      490                      495  
 Trp Met Leu Phe Ser Gly Val Val Asn Asp Met Ala Thr Asn Pro Asp  
                          500                      505                      510  
 Tyr Tyr Thr Glu Val Val Glu Gln Ser Leu Gly Thr Cys Asn Leu Ala  
                          515                      520                      525  
 Thr Glu Glu Ile Glu Arg Asp Leu Arg Arg Ser Leu Pro Glu His Pro  
                          530                      535                      540  
 Ala Phe Gln Ser Asp Thr Gly Ile Ser Ala Leu Arg Arg Val Leu Thr  
 545                      550                      555                      560  
 Ala Tyr Ala Tyr Arg Asn Pro Lys Ile Gly Tyr Cys Gln Ala Met Asn  
                          565                      570                      575  
 Ile Leu Thr Ser Val Leu Leu Leu Tyr Ala Lys Glu Glu Glu Ala Phe  
                          580                      585                      590  
 Trp Leu Leu Val Ala Val Cys Glu Arg Met Leu Pro Asp Tyr Phe Asn  
                          595                      600                      605  
 Arg Arg Ile Ile Gly Ser Asp Asp Phe Met Pro Leu Val Arg Ile Gln  
                          610                      615                      620  
 Gly Gln Cys Val Ile Gly Glu Lys  
 625                      630

&lt;210&gt; 3413

&lt;211&gt; 186

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3413

Met Gly Leu Met Met Val Gly Val Leu Ile Gly Thr Phe Ile Ala His  
 1 5 10 15

Val Val Cys Lys Arg Leu Leu Thr Ala Trp Val Ala Ala Arg Ile Gln  
 20 25 30

Ser Ser Glu Lys Leu Ser Ala Val Ile Arg Val Val Glu Gly Gly Ser  
 35 40 45

Gly Leu Lys Val Val Ala Leu Ala Arg Leu Thr Pro Ile Pro Phe Gly  
 50 55 60

Leu Gln Asn Ala Val Phe Ser Ile Thr Asp Leu Ser Leu Pro Asn Tyr  
 65 70 75 80

Leu Met Ala Ser Ser Val Gly Leu Leu Pro Thr Gln Leu Leu Asn Ser  
 85 90 95

Tyr Leu Gly Thr Thr Leu Arg Thr Met Glu Asp Val Ile Ala Glu Gln  
 100 105 110

Ser Val Ser Gly Tyr Phe Val Phe Cys Leu Gln Ile Ile Ile Ser Ile  
 115 120 125

Gly Leu Met Phe Tyr Val Val His Arg Ala Gln Val Glu Leu Asn Ala  
 130 135 140

Ala Ile Val Ala Cys Glu Met Glu Leu Lys Ser Ser Leu Val Lys Gly  
 145 150 155 160

Asn Gln Pro Asn Thr Ser Gly Ser Ser Phe Tyr Asn Lys Arg Thr Leu  
 165 170 175

Thr Phe Ser Gly Gly Gly Ile Asn Val Val  
 180 185

&lt;210&gt; 3414

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3414

Met Gln Val Pro Pro Leu Tyr Ser Ala Leu Lys Lys Asp Gly Gln Arg

1 5 10 15

Leu Ser Thr Leu Met Lys Arg Gly Glu Val Val Glu Ala Lys Pro Ala

20 25 30

Arg Pro Val Thr Val Tyr Ser Ile Ser Leu Gln Lys Phe Gln Pro Pro

35 40 45

Phe Phe Thr Leu Asp Val Glu Cys Gly Gly Gly Phe Tyr Ile Arg Ser

50 55 60

Leu Val Ser Asp Ile Gly Lys Glu Leu Ser Ser Cys Ala Asn Val Leu

65 70 75 80

Glu Leu Thr Arg Thr Lys Gln Gly Pro Phe Thr Leu Glu Glu His Ala

85 90 95

Leu Pro Glu Asp Lys Trp Thr Ile Asp Asp Ile Ala Gln Ser Leu Glu

100 105 110

His Cys Ser Ser Leu Phe Pro Ala Glu Leu Ala Leu Lys Lys Ser Lys

115 120 125

Pro Glu Ser Asn Glu Gln Val Leu Ser Cys Glu Tyr Ile Thr Leu Asn

130 135 140

Glu Pro Lys Arg Glu Asp Asp Val Ile Lys Thr Cys

145 150 155

&lt;210&gt; 3415

&lt;211&gt; 373

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3415

Met Arg Val Cys Ser Tyr Glu Cys Leu Pro Trp Glu Glu Ala Met Arg

1 5 10 15

Thr Glu Leu Gln Leu Glu Ser Arg Ser Ser Gly Ser Glu Arg Glu Glu

20 25 30

Arg Gln Arg Leu Glu Thr Ile Leu Ser Leu Cys Ala Glu Tyr Thr Lys

35 40 45

Pro Asp Ser Arg Leu Ser Thr Gly Thr Thr Val Glu Asp Val Gln Lys

50 55 60

Ile Asn Lys Glu Leu Glu Lys Leu Gln Leu Ser Asp Glu Glu Ser Val

65 70 75 80

Phe Glu Glu Ala Leu Met Ser Pro Asp Thr Arg Tyr Arg Cys His Arg

85 90 95

Lys Asp Ser Leu Pro Asp Ala Asp Leu Ala Ser Cys Gly Ser Phe Ser

100 105 110

Gln Ser Ser Ala Ser Phe Phe Thr Pro Arg Ser Thr Arg Asn Asp Glu

115 120 125

Leu Leu Ser Asp Leu Thr Arg Thr Pro Pro Pro Pro Ser Ser Thr Phe

130 135 140

Pro Lys Ala Ser Ser Glu Ser Ser Tyr Leu Ser Ile Leu Pro Lys Thr

145 150 155 160

Pro Glu Gly Ile Ser Glu Glu Gln Arg Ser Gln Glu Leu Ala Ala Met

165 170 175

Glu Glu Thr Arg Ile Val Ile Leu Asn Asn Leu Glu Glu Leu Lys Gln

180 185 190  
Lys Ile Lys Asp Ile Asn Asp Gln Met Asp Glu Ser Phe Arg Glu Leu  
195 200 205  
Asp Met Glu Cys Ala Leu Leu Asp Gly Glu Gln Lys Ser Glu Thr Thr  
210 215 220  
Glu Leu Met Lys Glu Lys Glu Ile Leu Asp His Leu Asn Arg Lys Ile  
225 230 235 240  
Ala Glu Leu Glu Lys Asn Ile Val Gly Glu Lys Thr Lys Glu Lys Val  
245 250 255  
Lys Leu Asp Ala Glu Arg Glu Lys Leu Glu Arg Leu Gln Glu Leu Tyr  
260 265 270  
Ser Glu Gln Lys Thr Gln Leu Asp Asn Cys Pro Glu Ser Met Arg Glu  
275 280 285  
Gln Leu Gln Gln Gln Leu Lys Arg Asp Ala Asp Leu Leu Asp Val Glu  
290 295 300  
Ser Lys His Phe Glu Asp Leu Glu Phe Gln Gln Leu Glu His Glu Ser  
305 310 315 320  
Arg Leu Asp Glu Glu Lys Glu Asn Leu Thr Gln Gln Leu Leu Arg Glu  
325 330 335  
Val Ala Glu Tyr Gln Arg Asn Ile Val Ser Arg Lys Glu Lys Ile Ser  
340 345 350  
Ala Leu Lys Lys Gln Ala Asn His Ile Val Gln Gln Ala Gln Arg Glu  
355 360 365  
Gln Asp His Phe Val  
370

&lt;210&gt; 3416

&lt;211&gt; 847

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3416

Met	Asn	Ala	Ser	Asn	Asp	Ile	Thr	Met	Glu	Asn	Val	Val	His	Glu	Leu
1				5					10					15	
Glu	Leu	Tyr	Asn	Thr	Gly	Tyr	Tyr	Leu	Gly	Met	Phe	Met	Asn	Ser	Phe
				20					25					30	
Ala	Val	Phe	Gln	Glu	Cys	Gly	Leu	Trp	Val	Leu	Thr	Asp	Ala	Asn	Leu
				35				40						45	
Thr	Lys	Asp	Tyr	Ile	Asp	Gly	Val	Tyr	Asp	Asn	Ala	Glu	Tyr	Ala	Glu
				50				55						60	
Arg	Phe	Met	Glu	Glu	Asn	Glu	Gly	His	Ile	Val	Asp	Ile	His	Asp	Phe
				65				70						75	
Ser	Leu	Gly	Ser	Ser	Pro	His	Val	Arg	Lys	His	Phe	Pro	Glu	Thr	Trp
				85					90					95	
Ile	Trp	Leu	Asp	Thr	Asn	Met	Gly	Ser	Arg	Ile	Tyr	Gln	Glu	Phe	Glu
				100					105					110	
Val	Thr	Val	Pro	Asp	Ser	Ile	Thr	Ser	Trp	Val	Ala	Thr	Gly	Phe	Val
				115					120					125	
Ile	Ser	Glu	Asp	Leu	Gly	Leu	Gly	Leu	Thr	Thr	Thr	Pro	Val	Glu	Leu
				130				135						140	
Gln	Ala	Phe	Gln	Pro	Phe	Phe	Ile	Phe	Leu	Asn	Leu	Pro	Tyr	Ser	Val
				145					150					155	
Ile	Arg	Gly	Glu	Glu	Phe	Ala	Leu	Glu	Ile	Thr	Ile	Phe	Asn	Tyr	Leu
				165					170					175	
Lys	Asp	Ala	Thr	Glu	Val	Lys	Val	Ile	Ile	Glu	Lys	Ser	Asp	Lys	Phe
				180					185					190	
Asp	Ile	Leu	Met	Thr	Ser	Ser	Glu	Ile	Asn	Ala	Thr	Gly	His	Gln	Gln

195 200 205  
Thr Leu Leu Val Pro Ser Glu Asp Gly Ala Thr Val Leu Phe Pro Ile  
210 215 220  
Arg Pro Thr His Leu Gly Glu Ile Pro Ile Thr Val Thr Ala Leu Ser  
225 230 235 240  
Pro Thr Ala Ser Asp Ala Ile Thr Gln Met Ile Leu Val Lys Ala Glu  
245 250 255  
Gly Ile Glu Lys Ser Tyr Ser Gln Ser Ile Leu Leu Asp Leu Thr Asp  
260 265 270  
Asn Arg Leu Gln Ser Thr Leu Lys Thr Leu Ser Phe Ser Phe Pro Pro  
275 280 285  
Asn Thr Val Thr Gly Ser Glu Arg Val Gln Ile Thr Ala Ile Gly Asp  
290 295 300  
Val Leu Gly Pro Ser Ile Asn Gly Leu Ala Ser Leu Ile Arg Met Pro  
305 310 315 320  
Tyr Gly Cys Gly Glu Gln Asn Met Ile Asn Phe Ala Pro Asn Ile Tyr  
325 330 335  
Ile Leu Asp Tyr Leu Thr Lys Lys Lys Gln Leu Thr Asp Asn Leu Lys  
340 345 350  
Glu Lys Ala Leu Ser Phe Met Arg Gln Gly Tyr Gln Arg Glu Leu Leu  
355 360 365  
Tyr Gln Arg Glu Asp Gly Ser Phe Ser Ala Phe Gly Asn Tyr Asp Pro  
370 375 380  
Ser Gly Ser Thr Trp Leu Ser Ala Phe Val Leu Arg Cys Phe Leu Glu  
385 390 395 400  
Ala Asp Pro Tyr Ile Asp Ile Asp Gln Asn Val Leu His Arg Thr Tyr  
405 410 415  
Thr Trp Leu Lys Gly His Gln Lys Ser Asn Gly Glu Phe Trp Asp Pro  
420 425 430

Gly Arg Val Ile His Ser Glu Leu Gln Gly Gly Asn Lys Ser Pro Val  
435 440 445

Thr Leu Thr Ala Tyr Ile Val Thr Ser Leu Leu Gly Tyr Arg Lys Tyr  
450 455 460

Gln Pro Asn Ile Asp Val Gln Glu Ser Ile His Phe Leu Glu Ser Glu  
465 470 475 480

Phe Ser Arg Gly Ile Ser Asp Asn Tyr Thr Leu Ala Leu Ile Thr Tyr  
485 490 495

Ala Leu Ser Ser Val Gly Ser Pro Lys Ala Lys Glu Ala Leu Asn Met  
500 505 510

Leu Thr Trp Arg Ala Glu Gln Glu Gly Gly Met Gln Phe Trp Val Ser  
515 520 525

Ser Glu Ser Lys Leu Ser Asp Ser Trp Gln Pro Arg Ser Leu Asp Ile  
530 535 540

Glu Val Ala Ala Tyr Ala Leu Leu Ser His Phe Leu Gln Phe Gln Thr  
545 550 555 560

Ser Glu Gly Ile Pro Ile Met Arg Trp Leu Ser Arg Gln Arg Asn Ser  
565 570 575

Leu Gly Gly Phe Ala Ser Thr Gln Asp Thr Thr Val Ala Leu Lys Ala  
580 585 590

Leu Ser Glu Phe Ala Ala Leu Met Asn Thr Glu Arg Thr Asn Ile Gln  
595 600 605

Val Thr Val Thr Gly Pro Ser Ser Pro Ser Pro Val Lys Phe Leu Ile  
610 615 620

Asp Thr His Asn Arg Leu Leu Leu Gln Thr Ala Glu Leu Ala Val Val  
625 630 635 640

Gln Pro Thr Ala Val Asn Ile Ser Ala Asn Gly Phe Gly Phe Ala Ile  
645 650 655

Cys Gln Leu Asn Val Val Tyr Asn Val Lys Ala Ser Gly Ser Ser Arg

660	665	670	
Arg Arg Arg Ser Ile Gln Asn Gln Glu Ala Phe Asp Leu Asp Val Ala			
675	680	685	
Val Lys Glu Asn Lys Asp Asp Leu Asn His Val Asp Leu Asn Val Cys			
690	695	700	
Thr Ser Phe Ser Gly Pro Gly Arg Ser Gly Met Ala Leu Met Glu Val			
705	710	715	720
Asn Leu Leu Ser Gly Phe Met Val Pro Ser Glu Ala Ile Ser Leu Ser			
725	730	735	
Glu Thr Val Lys Lys Val Glu Tyr Asp His Gly Lys Leu Asn Leu Tyr			
740	745	750	
Leu Asp Ser Val Asn Glu Thr Gln Phe Cys Val Asn Ile Pro Ala Val			
755	760	765	
Arg Asn Phe Lys Val Ser Asn Thr Gln Asp Ala Ser Val Ser Ile Val			
770	775	780	
Asp Tyr Tyr Glu Pro Arg Arg Gln Ala Val Arg Ser Tyr Asn Ser Glu			
785	790	795	800
Val Lys Leu Ser Ser Cys Asp Leu Cys Ser Asp Val Gln Gly Cys Arg			
805	810	815	
Pro Cys Glu Asn Gly Ala Ser Gly Ser His His His Ser Ser Val Ile			
820	825	830	
Phe Ile Phe Cys Phe Lys Leu Leu Tyr Phe Met Glu Leu Trp Leu			
835	840	845	

&lt;210&gt; 3417

&lt;211&gt; 653

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3417

Met	Val	Glu	Leu	Val	Asn	Ile	Glu	Pro	Val	Cys	Val	Arg	Gly	Gly	Leu
1				5					10					15	
Tyr	Glu	Val	Asp	Val	Thr	Gln	Gly	Glu	Cys	Tyr	Pro	Val	Tyr	Trp	Asn
			20					25					30		
Gln	Ala	Asp	Lys	Ile	Pro	Val	Met	Arg	Gly	Gln	Trp	Phe	Ile	Asp	Gly
		35					40					45			
Thr	Trp	Gln	Pro	Leu	Glu	Glu	Glu	Glu	Ser	Asn	Leu	Ile	Glu	Gln	Glu
	50					55					60				
His	Leu	Asn	Cys	Phe	Arg	Gly	Gln	Gln	Met	Gln	Glu	Asn	Phe	Asp	Ile
65					70					75				80	
Glu	Val	Ser	Lys	Ser	Ile	Asp	Gly	Lys	Asp	Ala	Val	His	Ser	Phe	Lys
			85					90					95		
Leu	Ser	Arg	Asn	His	Val	Asp	Trp	His	Ser	Val	Asp	Glu	Val	Tyr	Leu
		100						105					110		
Tyr	Ser	Asp	Ala	Thr	Thr	Ser	Lys	Ile	Ala	Arg	Thr	Val	Thr	Gln	Lys
		115					120						125		
Leu	Gly	Phe	Ser	Lys	Ala	Ser	Ser	Ser	Gly	Thr	Arg	Leu	His	Arg	Gly
	130					135					140				
Tyr	Val	Glu	Glu	Ala	Thr	Leu	Glu	Asp	Lys	Pro	Ser	Gln	Thr	Thr	His
145					150					155				160	
Ile	Val	Phe	Val	Val	His	Gly	Ile	Gly	Gln	Lys	Met	Asp	Gln	Gly	Arg
			165					170					175		
Ile	Ile	Lys	Asn	Thr	Ala	Met	Met	Arg	Glu	Ala	Ala	Arg	Lys	Ile	Glu
		180						185					190		
Glu	Arg	His	Phe	Ser	Asn	His	Ala	Thr	His	Val	Glu	Phe	Leu	Pro	Val
		195					200					205			
Glu	Trp	Arg	Ser	Lys	Leu	Thr	Leu	Asp	Gly	Asp	Thr	Val	Asp	Ser	Ile

210	215	220
Thr Pro Asp Lys Val Arg Gly Leu Arg Asp Met Leu Asn Ser Ser Ala		
225	230	235
Met Asp Ile Met Tyr Tyr Thr Ser Pro Leu Tyr Arg Asp Glu Leu Val		
245	250	255
Lys Gly Leu Gln Gln Glu Leu Asn Arg Leu Tyr Ser Leu Phe Cys Ser		
260	265	270
Arg Asn Pro Asp Phe Glu Glu Lys Gly Gly Lys Val Ser Ile Val Ser		
275	280	285
His Ser Leu Gly Cys Val Ile Thr Tyr Asp Ile Met Thr Gly Trp Asn		
290	295	300
Pro Val Arg Leu Tyr Glu Gln Leu Leu Gln Lys Glu Glu Glu Leu Pro		
305	310	315
Asp Glu Arg Trp Met Ser Tyr Glu Glu Arg His Leu Leu Asp Glu Leu		
325	330	335
Tyr Ile Thr Lys Arg Arg Leu Lys Glu Ile Glu Glu Arg Leu His Gly		
340	345	350
Leu Lys Ala Ser Ser Met Thr Gln Thr Pro Ala Leu Lys Phe Lys Val		
355	360	365
Glu Asn Phe Phe Cys Met Gly Ser Pro Leu Ala Val Phe Leu Ala Leu		
370	375	380
Arg Gly Ile Arg Pro Gly Asn Thr Gly Ser Gln Asp His Ile Leu Pro		
385	390	395
Arg Glu Ile Cys Asn Arg Leu Leu Asn Ile Phe His Pro Thr Asp Pro		
405	410	415
Val Ala Tyr Arg Leu Glu Pro Leu Ile Leu Lys His Tyr Ser Asn Ile		
420	425	430
Ser Pro Val Gln Ile His Trp Tyr Asn Thr Ser Asn Pro Leu Pro Tyr		
435	440	445

Glu His Met Lys Pro Ser Phe Leu Asn Pro Ala Lys Glu Pro Thr Ser  
 450 455 460  
 Val Ser Glu Asn Glu Gly Ile Ser Thr Ile Pro Ser Pro Val Thr Ser  
 465 470 475 480  
 Pro Val Leu Ser Arg Arg His Tyr Gly Glu Ser Ile Thr Asn Ile Gly  
 485 490 495  
 Lys Ala Ser Ile Leu Gly Ala Ala Ser Ile Gly Lys Gly Leu Gly Gly  
 500 505 510  
 Met Leu Phe Ser Arg Phe Gly Arg Ser Ser Thr Thr Gln Ser Ser Glu  
 515 520 525  
 Thr Ser Lys Asp Ser Met Glu Asp Glu Lys Lys Pro Val Ala Ser Pro  
 530 535 540  
 Ser Ala Thr Thr Val Gly Thr Gln Thr Leu Pro His Ser Ser Ser Gly  
 545 550 555 560  
 Phe Leu Asp Ser Ala Tyr Phe Arg Leu Gln Glu Ser Phe Phe Asn Leu  
 565 570 575  
 Pro Gln Leu Leu Phe Pro Glu Asn Val Met Gln Asn Lys Asp Asn Ala  
 580 585 590  
 Leu Val Glu Leu Asp His Arg Ile Asp Phe Glu Leu Arg Glu Gly Leu  
 595 600 605  
 Val Glu Ser Arg Tyr Trp Ser Ala Val Thr Ser His Thr Ala Tyr Trp  
 610 615 620  
 Ser Ser Leu Asp Val Ala Leu Phe Leu Leu Thr Phe Met Tyr Lys His  
 625 630 635 640  
 Glu His Asp Asp Asp Ala Lys Pro Asn Leu Asp Pro Ile  
 645 650

&lt;210&gt; 3418

&lt;211&gt; 531

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3418

Met Lys Gly Ala Arg Leu Phe Val Leu Leu Ser Ser Leu Trp Ser Gly

1 5 10 15

Gly Ile Gly Leu Asn Asn Ser Lys His Ser Trp Thr Ile Pro Glu Asp

20 25 30

Gly Asn Ser Gln Lys Thr Met Pro Ser Ala Ser Val Pro Pro Asn Lys

35 40 45

Ile Gln Ser Leu Gln Ile Leu Pro Thr Thr Arg Val Met Ser Ala Glu

50 55 60

Ile Ala Thr Thr Pro Glu Lys Ala Glu Gly Val Val Lys Leu Gln Asn

65 70 75 80

Leu Thr Leu Pro Thr Asn Ala Ser Ile Lys Phe Asn Pro Gly Ala Glu

85 90 95

Ser Val Val Leu Ser Asn Ser Thr Leu Lys Phe Leu Gln Ser Phe Ala

100 105 110

Arg Lys Ser Asn Glu Gln Ala Thr Ser Leu Asn Thr Val Gly Gly Thr

115 120 125

Gly Gly Ile Gly Gly Val Gly Gly Thr Gly Gly Val Gly Asn Arg Ala

130 135 140

Pro Arg Glu Thr Tyr Leu Ser Arg Gly Asp Ser Ser Ser Ser Gln Arg

145 150 155 160

Thr Asp Tyr Gln Lys Ser Asn Phe Glu Thr Thr Arg Gly Lys Asn Trp

165 170 175

Cys Ala Tyr Val His Thr Lys Leu Ser Pro Thr Val Ile Leu Asp Asn

180 185 190

Gln Val Thr Tyr Val Pro Gly Gly Lys Gly Pro Cys Gly Trp Thr Gly  
 195 200 205  
 Gly Ser Cys Pro Gln Arg Ser Gln Lys Ile Ser Asn Pro Val Tyr Arg  
 210 215 220  
 Met Gln His Lys Ile Val Thr Ser Leu Asp Trp Arg Cys Cys Pro Gly  
 225 230 235 240  
 Tyr Ser Gly Pro Lys Cys Gln Leu Arg Ala Gln Glu Gln Gln Ser Leu  
 245 250 255  
 Ile His Thr Asn Gln Ala Glu Ser His Thr Ala Val Gly Arg Gly Val  
 260 265 270  
 Ala Glu Gln Gln Gln Gln Gln Gly Cys Gly Asp Pro Glu Val Met Gln  
 275 280 285  
 Lys Met Thr Asp Gln Val Asn Tyr Gln Ala Met Lys Leu Thr Leu Leu  
 290 295 300  
 Gln Lys Lys Ile Asp Asn Ile Ser Leu Thr Val Asn Asp Val Arg Asn  
 305 310 315 320  
 Thr Tyr Ser Ser Leu Glu Gly Lys Val Ser Glu Asp Lys Ser Arg Glu  
 325 330 335  
 Phe Gln Ser Leu Leu Lys Glu Glu Tyr Ser Ser Cys Ser Arg His Pro  
 340 345 350  
 Cys Gln Asn Gly Gly Thr Cys Ile Asn Gly Arg Thr Ser Phe Thr Cys  
 355 360 365  
 Ala Cys Arg His Pro Phe Thr Gly Asp Asn Cys Thr Ile Lys Leu Val  
 370 375 380  
 Glu Glu Asn Ala Leu Ala Pro Asp Phe Ser Lys Gly Ser Tyr Arg Tyr  
 385 390 395 400  
 Ala Pro Met Val Ala Phe Phe Ala Ser His Thr Tyr Gly Met Thr Ile  
 405 410 415  
 Pro Gly Pro Ile Leu Phe Asn Asn Leu Asp Val Asn Tyr Gly Ala Ser

420                                      425                                      430  
 Tyr Thr Pro Arg Thr Gly Lys Phe Arg Ile Pro Tyr Leu Gly Val Tyr  
 435                                      440                                      445  
 Val Phe Lys Tyr Thr Ile Glu Ser Phe Ser Ala His Ile Ser Gly Phe  
 450                                      455                                      460  
 Leu Val Val Asp Gly Ile Asp Lys Leu Ala Phe Glu Ser Glu Asn Ile  
 465                                      470                                      475                                      480  
 Asn Ser Glu Ile His Cys Asp Arg Val Leu Thr Gly Asp Ala Leu Leu  
 485                                      490                                      495  
 Glu Leu Asn Tyr Gly Gln Glu Val Trp Leu Arg Leu Ala Lys Gly Thr  
 500                                      505                                      510  
 Ile Pro Ala Lys Phe Pro Pro Val Thr Thr Phe Ser Gly Tyr Leu Leu  
 515                                      520                                      525  
 Tyr Arg Thr  
 530

<210> 3419

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3419

Met Gln Gln Gly Ser Ala Ser Thr Thr Pro Asp Gln Glu Leu Gln Asn  
 1                                      5                                      10                                      15  
 Cys Lys Ile Leu Asp Thr Ile Gly Arg Gly Thr Phe Ser Glu Val Gln  
 20                                      25                                      30  
 Asp His Met Leu Ile Gly Thr Gln Met Ala Ile Lys Ile Ile Pro Lys  
 35                                      40                                      45

Ala Gly Ser Leu Gly Ile Thr Leu Gln Arg Val Ile Ser Ile Leu Lys  
 50 55 60  
 Leu Leu Cys His Phe Asn Ile Val Arg Leu Tyr Gln Val Ile Asp Thr  
 65 70 75 80  
 Pro Asn Thr Ser Tyr Leu Phe Ser Asn Gly Val Cys Lys Arg Arg Thr  
 85 90 95  
 Pro Thr Gln Pro Ile His His His Gly Leu Met Arg Glu Glu Lys Ala  
 100 105 110

<210> 3420

<211> 167

<212> PRT

<213> Homo sapiens

<400> 3420

Met Leu Thr Val Ala Leu Leu Ala Leu Leu Cys Ala Ser Ala Ser Gly  
 1 5 10 15  
 Asn Ala Ile Gln Ala Arg Ser Ser Ser Tyr Ser Gly Glu Tyr Gly Ser  
 20 25 30  
 Gly Gly Gly Lys Arg Phe Ser His Ser Gly Asn Gln Leu Asp Gly Pro  
 35 40 45  
 Ile Thr Ala Leu Arg Val Arg Val Asn Thr Tyr Tyr Ile Val Gly Leu  
 50 55 60  
 Gln Val Arg Tyr Gly Lys Val Trp Ser Asp Tyr Val Gly Gly Arg Asn  
 65 70 75 80  
 Gly Asp Leu Glu Glu Ile Phe Leu His Pro Gly Glu Ser Val Ile Gln  
 85 90 95  
 Val Ser Gly Lys Tyr Lys Trp Tyr Leu Lys Lys Leu Val Phe Val Thr

100 105 110  
 Asp Lys Gly Arg Tyr Leu Ser Phe Gly Lys Asp Ser Gly Thr Ser Phe  
 115 120 125  
 Asn Ala Val Pro Leu His Pro Asn Thr Val Leu Arg Phe Ile Ser Gly  
 130 135 140  
 Arg Ser Gly Ser Leu Ile Asp Ala Ile Gly Leu His Trp Asp Val Tyr  
 145 150 155 160  
 Pro Thr Ser Cys Ser Arg Cys  
 165

<210> 3421

<211> 323

<212> PRT

<213> Homo sapiens

<400> 3421

Met Ile Gly Cys Leu His Ala Arg Val Ser Gly Pro Leu Trp Asp Ala  
 1 5 10 15  
 Gly Leu Cys Pro Ala Ser Ser Arg Ser Ala His Thr Cys Leu Ser Leu  
 20 25 30  
 Ser Val Ser Asp Ala Pro Val Ser Pro Ala Thr Ala Pro His Cys Leu  
 35 40 45  
 Leu Leu Ser Thr Ala Pro Ala Pro Pro Cys Pro Cys His Gly Val Leu  
 50 55 60  
 Asn Ser His Pro Phe Ser Pro Pro Phe Pro Gln Arg Pro Asp Gln Glu  
 65 70 75 80  
 Leu Thr Gly Ser Trp Gly His Gly Pro Arg Ser Thr Leu Val Arg Ala  
 85 90 95

Lys Ala Met Ala Pro Pro Pro Pro Pro Leu Ala Ala Ser Thr Pro Leu  
100 105 110  
Leu His Gly Glu Phe Gly Ser Tyr Pro Ala Arg Gly Pro Arg Phe Ala  
115 120 125  
Leu Thr Leu Thr Ser Gln Ala Leu His Ile Gln Arg Leu Arg Pro Lys  
130 135 140  
Pro Glu Ala Arg Pro Arg Gly Gly Leu Val Pro Leu Ala Glu Val Ser  
145 150 155 160  
Gly Cys Cys Thr Leu Arg Ser Arg Ser Pro Ser Asp Ser Ala Ala Tyr  
165 170 175  
Phe Cys Ile Tyr Thr Tyr Pro Arg Gly Arg Arg Gly Ala Arg Arg Arg  
180 185 190  
Ala Thr Arg Thr Phe Arg Ala Asp Gly Ala Ala Thr Tyr Glu Glu Asn  
195 200 205  
Arg Ala Glu Ala Gln Arg Trp Ala Thr Ala Leu Thr Cys Leu Leu Arg  
210 215 220  
Gly Leu Pro Leu Pro Gly Asp Gly Gly Glu Val Leu Gly Ser Cys Ser  
225 230 235 240  
Ile Leu Glu Pro Pro Trp Cys Leu Cys Arg Ile Ser Ser Ile Gly Ser  
245 250 255  
Cys Val Phe Ile Phe Leu Cys Val Trp Val Met Tyr Leu Ser Gly Ser  
260 265 270  
Val Arg Ser Asp Thr Gln Gly Trp Ala Thr Glu Gly Thr Lys Arg Gln  
275 280 285  
Glu Asp Arg Met Trp Trp Leu Met Ser Val Ile Leu Ala Ile Trp Glu  
290 295 300  
Ala Glu Ala Gly Gly Ser Pro Glu Ile Arg Ser Ser Arg Pro Ala Trp  
305 310 315 320  
Leu Thr Trp

<210> 3422

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3422

Met Ser Val Val Pro Glu Lys Ser Gly Cys Leu Cys Leu Ala Ser Leu  
1 5 10 15  
His Thr Trp Ala Leu Thr Ser Arg Leu Leu Gly Ser Ser Ser Ser Val  
20 25 30  
Ser Arg Ala Ala Val Leu Leu Leu Leu Val Phe Pro His Phe Pro Pro  
35 40 45  
Gly Lys Glu Arg Leu Pro Asn Ala Gly Met Glu Tyr Lys Gln Asn Val  
50 55 60  
Met Gly Ser Ala Val Thr Pro Pro Pro Glu Ala Glu Ala Val Leu Leu  
65 70 75 80  
Glu Asp Arg Arg Arg His His Arg Val Phe Pro Leu Pro Leu Pro Leu  
85 90 95  
Leu Arg Asn Val Ser Ile Pro Ile Gly  
100 105

<210> 3423

<211> 133

<212> PRT

<213> Homo sapiens

&lt;400&gt; 3423

Met Val Lys Gly Gly Ser Ser Ile Ile Ser Pro Asp Thr Asn Leu Leu  
 1 5 10 15  
 Asn Ile Lys Gly Ser His Ser Lys Ser Lys Asn Ser His Phe Phe Phe  
 20 25 30  
 Ser Asn Thr Val Lys Ile Thr Ala Phe Ser Lys Lys Asn Glu Asn Ile  
 35 40 45  
 Phe Asn Cys Asp Leu Ile Asp Ser Val Asp Gln Ile Lys Asn Met Pro  
 50 55 60  
 Cys Leu Asp Leu Arg Glu Phe Gly Lys Asp Val Lys Pro Trp His Val  
 65 70 75 80  
 Glu Thr Thr Glu Ala Ala Arg Asn Asn Glu Asn Thr Gly Phe Asp Ala  
 85 90 95  
 Leu Ser His Glu Cys Thr Ala Lys Pro Leu Phe Pro Arg Val Glu Val  
 100 105 110  
 Gln Ser Glu Gln Leu Thr Val Glu Glu His Ile Lys Arg Asn Arg Cys  
 115 120 125  
 Tyr Ser Asp Thr Glu  
 130

&lt;210&gt; 3424

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3424

Met Ser Ile Arg Ser Asp Lys Ile Lys Asp Ile Asn Leu Met Phe Pro

1	5	10	15												
Trp	Pro	Ala	Leu	Arg	Cys	Ala	Gly	Thr	Asn	Arg	Leu	Tyr	Leu	Leu	Tyr
	20		25		30										
Phe	Phe	Phe	Pro	Phe	Phe	Leu	Lys	Arg	Ser	Leu	Ala	Gln	Ser	Pro	Arg
	35		40		45										
Leu	Glu	Gly	Ser	Gly	Ala	Ile	Ser	Ala	His	Cys	Arg	Leu	Arg	Leu	Pro
	50		55		60										
Gly	Ser	Arg	Arg	Ser	Pro	Ala	Ser	Ala	Ser	Arg	Ile	Ala	Gly	Thr	Thr
	65		70		75										80
Gly	Ala	Arg	His	Tyr	Ala	Arg	Leu	Ile	Phe	Cys	Val	Phe	Leu	Val	Glu
		85						90						95	
Ala	Gly	Phe	His	His	Val	Gly	Leu	Glu	Leu	Leu	Thr	Ser	Gly	Asp	Pro
	100						105						110		
Pro	Ala	Leu	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Val	Ser	His	Cys
	115						120						125		
Val	Arg	Pro	Leu	Tyr	Phe	Phe	Glu	Leu	Gln	Thr					
	130						135								

&lt;210&gt; 3425

&lt;211&gt; 452

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3425

Met	Pro	Trp	Gly	Lys	Asn	Ser	Ser	Pro	His	Trp	Gly	His	His	Leu	Gly
1		5						10						15	
Cys	Leu	Pro	Ser	Ala	Pro	Ala	Cys	Arg	Ile	Trp	Arg	Pro	His	Ser	Arg
	20							25						30	

Pro Ala Trp Glu Pro Pro Arg Pro Ser Pro Leu Leu Cys Gln Asp Met  
35 40 45  
Ala Leu Gln Asn Ala Leu Tyr Thr Gly Asp Leu Ala Arg Leu Gln Glu  
50 55 60  
Leu Phe Pro Pro His Ser Thr Ala Asp Leu Leu Leu Glu Ser Arg Ala  
65 70 75 80  
Ala Glu Pro Arg Trp Ser Ser His Gln Arg Gly Leu Trp Ser Leu Thr  
85 90 95  
Tyr Glu Glu Glu Leu Thr Thr Pro Leu His Val Ala Ala Ser Arg Gly  
100 105 110  
His Thr Glu Val Leu Arg Leu Leu Leu Arg Arg Arg Ala Arg Pro Asp  
115 120 125  
Ser Ala Pro Gly Gly Arg Thr Ala Leu His Glu Ala Cys Ala Ala Gly  
130 135 140  
His Thr Ala Cys Val His Val Leu Leu Val Ala Gly Ala Asp Pro Asn  
145 150 155 160  
Ile Ala Asp Gln Asp Gly Lys Arg Pro Leu His Leu Cys Arg Gly Pro  
165 170 175  
Gly Thr Leu Glu Cys Ala Glu Leu Leu Leu Arg Phe Gly Ala Arg Val  
180 185 190  
Asp Gly Arg Ser Glu Glu Glu Glu Glu Thr Pro Leu His Val Ala Ala  
195 200 205  
Arg Leu Gly His Val Glu Leu Ala Asp Leu Leu Leu Arg Arg Gly Ala  
210 215 220  
Cys Pro Asp Ala Arg Asn Ala Glu Gly Trp Thr Pro Leu Leu Ala Ala  
225 230 235 240  
Cys Asp Val Arg Cys Gln Ser Ile Thr Asp Ala Glu Ala Thr Thr Ala  
245 250 255  
Arg Cys Leu Gln Leu Cys Ser Leu Leu Leu Ser Ala Gly Ala Asp Ala

260	265	270
Asp Ala Ala Asp Gln Asp Lys Gln Arg Pro Leu His Leu Ala Cys Arg		
275	280	285
Arg Gly His Ala Ala Val Val Glu Leu Leu Leu Ser Cys Gly Val Ser		
290	295	300
Ala Asn Thr Met Asp Tyr Gly Gly His Thr Pro Leu His Cys Ala Leu		
305	310	315
Gln Gly Pro Ala Ala Ala Leu Ala Gln Ser Pro Glu His Val Val Arg		
325	330	335
Ala Leu Leu Asn His Gly Ala Val Arg Val Trp Pro Gly Ala Leu Pro		
340	345	350
Lys Val Leu Glu Arg Trp Ser Thr Cys Pro Arg Thr Ile Glu Val Leu		
355	360	365
Met Asn Thr Tyr Ser Val Val Gln Leu Pro Glu Glu Ala Val Gly Leu		
370	375	380
Val Thr Pro Glu Thr Leu Gln Lys His Gln Arg Phe Tyr Ser Ser Leu		
385	390	395
Phe Ala Leu Val Arg Arg Pro Arg Ser Leu Gln His Leu Ser Arg Cys		
405	410	415
Ala Pro Arg Ser His Leu Glu Gly Ser Leu Pro Gln Ala Leu Pro Arg		
420	425	430
Leu Pro Leu Pro Pro Arg Leu Leu Arg Tyr Leu Gln Leu Asp Phe Glu		
435	440	445
Gly Val Leu Tyr		
450		

&lt;210&gt; 3426

&lt;211&gt; 398

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3426

Met Val Thr Leu Ile Thr Glu Lys Leu Gln Ser Gln Ser Leu Asp Asp  
1 5 10 15  
Leu Thr Cys Lys Ala Glu Ala Gly Pro Leu Gln Tyr Ser Ala Glu Thr  
20 25 30  
Leu Asn Lys Ser Gly Arg Leu Phe Pro Leu Glu Leu Asn Asp Gln Ser  
35 40 45  
Pro Trp Lys Val Phe Ser Gly Gly Pro Pro Val Arg Ser Gln Ala Ala  
50 55 60  
Thr Gly Pro Asp Phe Ser Phe Leu Pro Gly Leu Ser Ala Ala Ala His  
65 70 75 80  
Thr Met Gly Leu Gln Trp Gln Pro Gln Ser Pro Arg Pro Gly Val Gly  
85 90 95  
Leu Gly Ala Ala Ser Thr Val Asp Pro Ser Glu Ser Thr Gly Ser Ser  
100 105 110  
Thr Ala Pro Pro Thr Lys Arg His Cys Arg Ser Leu Ser Glu Pro Glu  
115 120 125  
Glu Leu Val Arg Cys Arg Ser Pro Trp Arg Pro Gly Ser Ser Lys Val  
130 135 140  
Trp Thr Pro Val Ser Lys Arg Arg Cys Asp Ser Gly Gly Ser Ala Thr  
145 150 155 160  
Arg Gln Gly Ser Pro Gly Ala Val Leu Pro Arg Ser Ala Val Trp Ser  
165 170 175  
Thr Gly Pro Thr Ser Pro Ala Thr Pro Arg Pro Ser Ser Ala Ser Gly  
180 185 190  
Gly Phe Val Asp Ser Ser Glu Gly Ser Ala Gly Ser Gly Pro Leu Trp

195	200	205
Cys Ser Ala Glu Ser Cys Leu Pro Ser Thr Arg Arg Arg Pro Ser Leu		
210	215	220
Ser Gln Glu Arg Leu Ala Gly Ala Gly Thr Pro Leu Pro Trp Ala Ser		
225	230	235
Ser Ser Pro Thr Ser Thr Pro Ala Leu Gly Gly Arg Arg Gly Leu Leu		
245	250	255
Arg Cys Arg Ser Gln Pro Cys Val Leu Ser Gly Lys Arg Ser Arg Arg		
260	265	270
Lys Arg Arg Arg Glu Glu Asp Ala Arg Trp Thr Arg Pro Ser Leu Asp		
275	280	285
Phe Leu Lys Met Thr Gln Thr Leu Lys Asn Ser Lys Ser Leu Cys Ser		
290	295	300
Leu Asn Tyr Glu Asp Asp Asp Glu Asp Asp Thr Pro Val Lys Thr Val		
305	310	315
Leu Ser Ser Pro Cys Asp Ser Arg Gly Leu Pro Gly Ile Thr Met Pro		
325	330	335
Gly Cys Ser Gln Arg Gly Leu Arg Thr Ser Pro Val His Pro Asn Leu		
340	345	350
Trp Ala Ser Arg Glu Ser Val Thr Ser Asp Gly Ser Arg Arg Ser Ser		
355	360	365
Gly Asp Pro Arg Asp Gly Asp Ser Val Gly Glu Glu Gly Val Phe Pro		
370	375	380
Arg Ala Arg Trp Glu Leu Asp Leu Glu Gln Ile Glu Asn Asn		
385	390	395

&lt;210&gt; 3427

&lt;211&gt; 119

<212> PRT

<213> Homo sapiens

<400> 3427

Met Pro Ala Pro Met Val Val Ser Gly Lys Ala His Ser Ser Ser Val  
1 5 10 15  
Thr Phe Pro Phe Ser Ile His Leu Arg Leu His Ala Leu Gln Leu Leu  
20 25 30  
Gly Leu Cys Ser Cys His Ile Glu Glu Gly Gly Trp Ala Arg His Gly  
35 40 45  
Ile Ile Leu Arg Ser Leu Leu His Gln Leu Leu Gly Thr Met Glu Tyr  
50 55 60  
Pro Arg Val Val Thr Ala Asp Gly Ala Thr Trp Gly Arg Ala Gln Val  
65 70 75 80  
Gly Gln Ala Thr Ala Gly Val Met Ala Cys Glu Pro Gln Ala Thr Ser  
85 90 95  
Gly Thr Phe Pro Thr Ala Ser Met Gln Gly Cys Arg Ala Met Val Pro  
100 105 110  
Phe Ser Thr Ala Leu Glu Leu  
115

<210> 3428

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3428

Met Asp Gln Ser Arg Gly Arg Gly Thr Ala Leu Glu Pro Ile Gly Gly

1 5 10 15  
Leu Arg Met Ala Ser Leu Ser Gly Lys Asp Phe His Pro Asp Ser Phe  
20 25 30  
Arg Pro Gln Pro Gln Pro Ser Arg Arg Trp Ala Gly Leu Glu Glu Arg  
35 40 45  
Ser Ser Glu Arg Thr Ile Asn Leu Ser Val Leu His Phe Tyr Pro Ser  
50 55 60  
Pro Gln Glu Ser Pro Ser Leu Pro Ser Ala Val Arg Pro Phe Pro Gly  
65 70 75 80  
Ala Arg Gly Val Arg Ser Arg Ala Leu Met Gly Val Asn Cys Ser Leu  
85 90 95  
Asp Ser Val Lys Leu Ala Cys Trp Leu Gly Val Phe Pro Ile Trp Gly  
100 105 110  
Glu Ser Pro Leu Thr Asn Ser Pro Lys Ala Ile His Arg Ala Phe Tyr  
115 120 125  
Ser Pro Thr Ser Thr Gln Leu Leu Tyr Arg Gln Arg Gln Arg Gln Thr  
130 135 140  
His Thr His Ser  
145

&lt;210&gt; 3429

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3429

Met Arg Pro Leu Gly Lys Gly Leu Leu Pro Ala Glu Glu Leu Ile Arg  
1 5 10 15

Ser Asn Leu Gly Val Gly Arg Ser Leu Arg Asp Cys Leu Ser Gln Ser  
20 25 30  
Gly Lys Leu Ala Glu Glu Leu Gly Ser Lys Arg Leu Lys Pro Ala Lys  
35 40 45  
Phe Gly Thr Glu Gly Lys Glu Arg Val Glu Gln Arg Thr Glu Arg Gln  
50 55 60  
Arg Thr Gly Ser Ser Lys Glu Pro Arg Met Gln Ile Ile Cys Arg Arg  
65 70 75 80  
Arg Trp Arg Glu Pro Pro Pro Arg Leu Leu Trp Gly Cys Leu Met Pro  
85 90 95  
Arg Ala Gln Pro Leu Leu His Val Thr Ala Tyr Glu Asn Thr Gly His  
100 105 110  
Trp Glu Arg Leu Ala Ser Val Val Ser Ser Lys Thr Gln Gln Pro Thr  
115 120 125  
Val Ile Ser His Ser Ser Ile Ser Ile Thr Phe Ser His Tyr Pro Pro  
130 135 140  
Ala Thr Leu Asp Ser Phe Leu Val Leu Glu Pro Ile Lys Leu Phe Pro  
145 150 155 160  
Val Ser Ser Leu Arg Ser Pro Leu Cys Leu Asn Cys Gly Ser Cys Arg  
165 170 175  
Glu Ser Ile Arg Ile Ser Gly Glu Leu Ile Gly Asn Ala His Ser Pro  
180 185 190  
Ala Pro Pro Arg Thr Pro Glu Leu Glu Thr Leu Gly Trp Asp Lys Gln  
195 200 205  
Ala Val Leu Ser Gly Ala Gln Val Ile Leu Val Cys Ala Glu Val  
210 215 220

&lt;210&gt; 3430

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3430

Met Val Thr Leu Met Gly Val Trp Leu Gly Pro Trp Gly Arg Gly Met

1 5 10 15

Ala Ala Pro Pro Thr Glu Gly Ala Ala Val Thr Pro Ala Ser Ser Pro

20 25 30

Gly Pro Gln Ala Ser Leu Ala Trp Arg Ser Ser Gly Ser Arg Pro Cys

35 40 45

Cys Pro Leu Thr Ala Ser Leu Thr Ser Pro Trp Arg Asn Gln Pro Leu

50 55 60

His Thr Ala Pro Ser Gly Gly Gly Cys Cys Val Thr Gly Pro Ala Cys

65 70 75 80

Ser Ile Ala Trp Ala Gly Arg Ser Pro Pro Ser Arg Trp Ile Phe Gln

85 90 95

Arg Gly Leu Thr Ala Thr Ser Thr Leu Pro Gly Ser Cys Trp Lys Gly

100 105 110

Arg Ser Ser Ala Ser Trp Pro His Thr Gly Ala Val Cys Cys Pro Ala

115 120 125

Pro Ala Pro Cys

130

&lt;210&gt; 3431

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3431

Met Glu Gln Asp Asn Ser Pro Arg Lys Ile Gln Phe Thr Val Pro Leu  
1 5 10 15  
Leu Glu Pro His Leu Asp Pro Glu Ala Ala Glu Gln Ile Arg Arg Arg  
20 25 30  
Arg Pro Thr Pro Ala Thr Leu Val Leu Thr Ser Asp Gln Ser Ser Pro  
35 40 45  
Glu Ile Asp Glu Asp Arg Ile Pro Asn Pro His Leu Lys Lys Leu Gln  
50 55 60  
Asn Ala Ser Leu Lys Leu Thr Arg Glu Ala Val Arg Asn Pro Ala Gln  
65 70 75 80  
Lys Asn Pro Gln Pro Ile Tyr His His Trp Ile Pro Arg Glu Pro Thr  
85 90 95  
Arg Ser Glu Arg Arg Gly Gly Thr Gly Gly Gln Lys Ser Val Gly Gly  
100 105 110  
Phe Pro Cys Ser Thr His Thr Leu Ala Pro Phe Tyr Val Phe Thr Arg  
115 120 125  
Ser Ile Leu Leu Leu Lys Arg Gly Glu Arg Met Ser His Pro Leu Glu  
130 135 140  
Pro Arg Asp Asp Pro Thr Lys Met Pro  
145 150

&lt;210&gt; 3432

&lt;211&gt; 387

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3432

Met Ser Ser Pro Pro Ala Leu Arg Asp Ser Pro Val Cys Pro Arg Tyr  
 1 5 10 15  
 Ser Pro Thr Thr Pro Thr Phe Gln Leu Glu Ser Leu Ala Gly Thr Gln  
 20 25 30  
 Glu Leu Pro Thr Asn Ser Ala Val Ala Leu Ser Tyr Ser Pro Val Ser  
 35 40 45  
 Leu Met Ser Ser Pro Pro Ala Pro Trp Asp Ser Pro Val Cys Pro Ser  
 50 55 60  
 Ser Ser Pro Thr Thr Pro Arg Phe Gln Arg Glu Ser Ala Ser His Thr  
 65 70 75 80  
 Pro Glu Ser Pro Thr Asp Ser Gln Thr Ser Arg Arg Ser Ser Leu Val  
 85 90 95  
 Ser Leu Arg Ser Leu Pro Ser Ala His Arg Asp Ser Cys Val Ser Phe  
 100 105 110  
 Ser Tyr Ser Arg Asn Phe Ser Arg Phe Gln Leu Asp Ser Val Pro Gly  
 115 120 125  
 Thr His Asp Thr Pro Pro Asn Ser Arg Ile Ser Leu Thr Tyr Ser Pro  
 130 135 140  
 Val Ser Leu Met Phe Ser Pro Pro Ala Leu Arg Asp Ser Ser Val Ser  
 145 150 155 160  
 Leu Ser Tyr Ser Pro Ala Ile Ser Thr Ser His Leu Gly Ser Ala Ser  
 165 170 175  
 His Thr Gln Glu Ser Pro Thr Asn Ser Arg Thr Leu Leu Gln Pro Ser  
 180 185 190  
 Pro Ile Ser Phe Thr Ser Ser Pro Pro Ala Phe Arg Asp Ser Pro Val  
 195 200 205  
 Ser Pro Ser Phe Ser Pro Ala Phe Pro Arg Phe Leu Pro Gln Ser Ala  
 210 215 220

Pro Gly Thr Gln Gly Tyr Pro Gly His Ser Gln Ala Ser Arg Asp Tyr  
 225                      230                      235                      240  
 Phe Pro Met Thr Cys Ile Tyr Arg Gly Met Ala Pro Ile Leu Pro Ser  
                          245                      250                      255  
 Val Thr Ser Asn Pro Ser Pro Leu Thr Leu Arg His Ser Gln Gly Leu  
                          260                      265                      270  
 Thr Ala Thr Pro Arg Tyr Cys Pro Ser Ala Arg Ser Pro Gly Pro Ser  
                          275                      280                      285  
 Thr Ser Gln His Asp Ala Ala Thr Trp Pro Cys Leu His Ile Ser Gly  
                          290                      295                      300  
 Glu Gly Pro Thr Pro Ser Arg Arg Arg Ala Pro Pro Ala Phe Arg Pro  
 305                      310                      315                      320  
 His Thr Gln Ala Cys Pro Ser Thr Cys Tyr Cys His Pro Leu Ala Ser  
                          325                      330                      335  
 Arg Arg Gly Pro Cys Asn Gly Arg Tyr His Arg Pro Val Tyr Pro His  
                          340                      345                      350  
 Pro Thr Ala Val Gln Arg Asp Pro Pro Ala Gly Pro Arg Gly Cys His  
                          355                      360                      365  
 Ser Pro Cys Trp His Asp Ala Pro Ala Cys Arg Arg Pro Cys Gly Pro  
                          370                      375                      380  
 Arg Tyr Arg  
 385

&lt;210&gt; 3433

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3433

Met Pro Gly Glu Pro Pro Leu Gly Lys Met Phe Gly Arg Gly Ser Lys  
 1 5 10 15  
 Gly Ser Thr Glu Asp Gly Leu Glu Leu Arg Gly Ile His Phe Met Val  
 20 25 30  
 Lys Lys Pro Phe Leu Lys Glu Ser Ser Thr Gln Glu Thr Pro Pro Thr  
 35 40 45  
 His Ala Ser Leu Pro Pro Lys Thr Arg Leu Cys Leu Ser His Thr Phe  
 50 55 60  
 Tyr Val Leu Tyr Ile Lys Asn Pro Leu Glu Phe Ser Lys Leu Gly Ile  
 65 70 75 80  
 Val Val Cys Asp Ala Tyr Leu Lys Arg Gly Glu Arg Val Gly His Gly  
 85 90 95  
 Gly Ser Arg Leu  
 100

&lt;210&gt; 3434

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3434

Met Gln Ala Leu Ser Lys Leu Gly Ser Leu Ser Gln Leu Asp Trp Gly  
 1 5 10 15  
 Pro Arg Pro Gly Ser Gly Ala Ala Gly Ala Trp Ala Trp Gly Leu Ala  
 20 25 30  
 Val Ala His Gly Leu Ser Ser Gly Leu Gly Trp Arg Arg Cys Ser Leu  
 35 40 45

Ala Ala Cys Ala Val Leu Glu Leu Thr Trp Gly Lys Ala Gly Leu Ala  
 50 55 60  
 Gly Leu Gly Arg Ala Arg Leu Trp Pro Arg Pro Leu Gly Arg Leu Arg  
 65 70 75 80  
 Arg Glu Gln Arg Leu Ser Pro Gly Ala Leu Arg Cys Ile Cys Ala Arg  
 85 90 95  
 Ser Val Ala Arg Cys Leu  
 100

<210> 3435

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3435

Met Ser Ser Gln Cys Leu Glu Thr Arg Thr Val Ile Tyr Arg Ser Ile  
 1 5 10 15  
 Phe Leu Val Phe Leu Lys Val Ser Phe His Asn Thr Arg Ser Ser Leu  
 20 25 30  
 Pro Leu Val Ser Trp Arg Val His Pro Thr Asp Glu Ser Ser Phe Pro  
 35 40 45  
 Val Gly Leu Ser His Leu Gly Asn Ser Leu Arg Ser Thr Tyr Gln Pro  
 50 55 60  
 Arg Lys Lys Leu Pro Gly Tyr Leu Leu Pro Thr Cys Pro Gly Leu Ile  
 65 70 75 80  
 Asn Thr Lys Gly Gly Lys Leu Lys Gly Ala Ala Asn Trp Ser Thr Trp  
 85 90 95  
 Lys Gly Gly Ser Thr Leu Asp Trp Cys Leu Ser Phe Ser Ser Phe Phe

100	105	110
Leu Lys Lys Ile Tyr Phe Leu Asn Asn Asn Lys Cys Thr		
115	120	125

&lt;210&gt; 3436

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3436

Met Asp Gly Gln Thr Glu Arg Ala Ala Asn Gln Gln Ala Ser Ser Ser			
1	5	10	15
Gln Ala Ser His Leu Trp Pro Cys Ile Phe Leu Ser Val Gly Gln Arg			
20	25	30	
Tyr Lys Glu Ile Arg Gln Lys Tyr Arg Arg Trp Ser Phe Ala Leu Ser			
35	40	45	
Pro Arg Leu Glu Gly Asn Asp Thr Thr Ile Ala His Trp Ser Leu Glu			
50	55	60	
Leu Leu Gly Ser His Asp Pro Pro Thr Ser Ala Ser Gln Val Ala Gly			
65	70	75	80
Thr Thr Ala Thr His His Cys Gly Gly Leu Thr Gly Gly Val Arg Thr			
85	90	95	
Glu Val Asn Ser Leu			
100			

&lt;210&gt; 3437

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3437

Met	Thr	Pro	Pro	Pro	Lys	Thr	His	Thr	His	Thr	Val	Val	Ser	Tyr	His
1				5					10					15	
Ser	Arg	Trp	Ala	Met	Cys	Lys	Asp	Ser	Arg	Asp	Gln	Glu	Cys	Arg	Trp
			20					25					30		
Pro	Gln	Gln	Gly	Trp	Leu	Ser	Phe	Pro	Cys	Ser	Phe	Thr	Ser	Gly	Thr
			35				40					45			
Ser	Ala	Gly	Lys	Gly	Leu	Ser	Ser	Trp	Asn	His	Ala	Pro	Val	Ile	Gly
	50					55					60				
Ala	Ala	Ile	Thr	Trp	Gln	Leu	Gly	Leu	Ser	Ala	Gly	Met	His	Thr	Gly
	65				70					75				80	
Ala	Leu	Leu	Cys	Gly	Val	Ala	Ser	Ser	Ala	Cys	Leu	Asp	Phe	Phe	Tyr
				85					90					95	
Gly	Gly	Pro	Glu	Ile											
				100											

&lt;210&gt; 3438

&lt;211&gt; 253

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3438

Met	Leu	Ile	Leu	Gly	Ser	Met	Phe	Ser	Leu	Val	Glu	Pro	Val	Leu	Thr
1				5					10					15	
Ile	Ala	Ala	Ala	Leu	Ser	Val	Gln	Ser	Pro	Phe	Thr	Arg	Ser	Ala	Gln

20	25	30
Ser Ser Pro Glu Cys Ala Ala Ala Arg Arg Pro Leu Glu Ser Asp Gln		
35	40	45
Gly Asp Pro Phe Thr Leu Phe Asn Val Phe Asn Ala Trp Val Gln Val		
50	55	60
Lys Ser Glu Arg Ser Arg Asn Ser Arg Lys Trp Cys Arg Arg Arg Gly		
65	70	75
Ile Glu Glu His Arg Leu Tyr Glu Met Ala Asn Leu Arg Arg Gln Phe		
85	90	95
Lys Glu Leu Leu Glu Asp His Gly Leu Leu Ala Gly Ala Gln Ala Ala		
100	105	110
Gln Val Gly Asp Ser Tyr Ser Arg Leu Gln Gln Arg Arg Glu Arg Arg		
115	120	125
Ala Leu His Gln Leu Arg Arg Gln His Glu Glu Gly Ala Gly Arg Arg		
130	135	140
Arg Lys Val Leu Arg Leu Gln Glu Glu Gln Asp Gly Gly Ser Ser Asp		
145	150	155
Glu Asp Arg Ala Gly Pro Ala Pro Pro Gly Ala Ser Asp Gly Val Asp		
165	170	175
Ile Gln Asp Val Lys Phe Lys Leu Arg His Asp Leu Ala Gln Leu Gln		
180	185	190
Ala Ala Ala Ser Ser Ala Gln Asp Leu Ser Arg Glu Gln Leu Ala Leu		
195	200	205
Leu Lys Leu Val Leu Gly Arg Gly Leu Tyr Pro Gln Leu Ala Val Pro		
210	215	220
Asp Ala Phe Asn Ser Ser Arg Lys Asp Ser Asp Gln Val Gly Pro Val		
225	230	235
Leu Pro His Pro Met Phe Cys Pro Pro Thr His Glu Pro		
245	250	

&lt;210&gt; 3439

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3439

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Met Ala Gln Pro Pro Val Thr Leu Leu Cys Ile Cys Ser Glu Val Leu
  1             5             10             15
Val Arg Ala Ala Asp Ser Ile Trp Lys Trp Thr Leu Ser Gly Pro Gly
          20             25             30
Pro Gly Ser Val Trp Pro Ser Thr Gly Glu Ala Gly Leu Arg Arg Gly
          35             40             45
Leu Arg Ala Glu Ala Pro Leu Gln Gln Leu Gln Glu Gly Pro Ala Pro
          50             55             60
Gly Glu Glu Cys Leu Gly Arg Ala Trp Gly Leu Arg Val Arg Arg Arg
          65             70             75             80
Gly Pro Leu Pro Pro Leu Pro Trp Gly Ser Glu Arg Pro Pro Cys Cys
          85             90             95
Leu Glu Gly Ala Trp Gln Leu Glu Trp Glu Gln Arg Pro Gln Gly Gly
          100            105            110
Arg Ala Gly Gly Arg Gly Pro Ala Ala Cys Pro Val Pro Arg Lys Val
          115            120            125
Thr Ala Cys Phe Glu Ser Ala Ala Lys Lys Ser Val Gly Gln Phe Arg
          130            135            140
Gln Leu Ser Pro Glu Leu Pro Arg Glu Thr His Pro Ala Cys Pro Ala
          145            150            155            160
Leu Pro Thr Gly Ser Arg Arg Thr Glu Gly Thr Gln Leu Gly Ala Arg

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165 170 175  
 Arg Pro Gly Leu  
 180

<210> 3440

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3440

Met Pro Ser Phe Thr His Ser Pro Pro Glu His Ser Val Ser Pro Met  
 1 5 10 15  
 Val Arg Ala Arg Leu Leu Arg Met Ala Phe Lys Ala Ser Val Pro Ser  
 20 25 30  
 Pro Arg Pro Ala Ile Leu Gln Arg Val Arg Ser Ala Ser Pro Gly Pro  
 35 40 45  
 Leu Pro Val Leu Leu Cys Glu Ala Pro Cys Pro His Leu Phe Thr Cys  
 50 55 60  
 Gln Pro Leu His Phe Leu Arg Val Leu Thr Leu Val Ser Trp Leu Pro  
 65 70 75 80  
 Phe Tyr Phe Lys Glu Pro Pro Val Tyr Leu Pro Pro Ser Val Ser Leu  
 85 90 95  
 Ile Leu Leu Ala Leu Ser Phe Phe Cys Ile Ile Tyr Tyr Leu Ile Thr  
 100 105 110  
 Tyr Lys Lys Met Tyr Thr Leu Met Cys Thr Val Ser Asn Cys  
 115 120 125

&lt;210&gt; 3441

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3441

Met Pro Val Thr Pro Ala Leu Trp Glu Ala Glu Ala Gly Gly Ser Leu

1 5 10 15

Glu Leu Arg Ser Ser Gly Pro Ala Leu Asp Lys Met Val Arg Pro Cys

20 25 30

Leu Cys Gln Lys Asn Thr Glu Val Ser Gln Ala Trp Cys Ser Val Pro

35 40 45

Val Val Ala Ala Thr Gly Glu Ala Glu Val Gly Gly Ser Leu Asp Pro

50 55 60

Arg Arg Ser Gly Leu Gln Trp Ala Val Ile Val Pro Leu His Pro Ser

65 70 75 80

Leu Gly Asp Arg Val Arg Pro Cys Leu Lys Lys Arg Lys Val Lys Ala

85 90 95

Thr Arg Gly Gly Ser Cys Leu Trp Phe Gln His Phe Gly Arg Pro Arg

100 105 110

Arg Val Asp His Leu Arg Trp Gly Val

115 120

&lt;210&gt; 3442

&lt;211&gt; 322

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3442

Met Arg Pro Lys Pro Pro Ser Arg Ala Gly Val Leu Gln Ile Ala Gln  
 1 5 10 15  
 Glu Leu His Arg Lys Ala Glu Gln Thr Pro Pro Arg Pro Arg Pro Arg  
 20 25 30  
 Ser Leu Thr Val Ala Arg Gly Ser Val Gly His Thr Glu Glu Arg Gly  
 35 40 45  
 Gly Val Ala Ala Glu Leu Arg Lys Arg Leu Val Arg Gly Gly Ala Arg  
 50 55 60  
 Arg Gly Ser Arg Asp Gly Gly Arg Gly Arg Arg Gly Gly Gly Val Ala  
 65 70 75 80  
 Gly Gln Arg Ser Gln Glu Gly Trp Gly Ser Gly Arg Arg Ala Arg Val  
 85 90 95  
 Thr Gly Arg Gly Ser Trp Gly Arg Gly Pro Gly Val Ala Ala Arg Gly  
 100 105 110  
 Val Gly Ala Ala Gly Arg Asp Thr Gly Gly Pro Arg Ala Leu Gly Gly  
 115 120 125  
 Gly Cys Lys Ala Trp Ile Thr Leu Met Ser Gly Glu Thr Cys Thr Gly  
 130 135 140  
 Gly Thr Ile Leu Ser Pro Thr Ser Ala Pro Glu Ala Gln Pro Ala Asp  
 145 150 155 160  
 Gly Ala Gly Cys Arg Thr Ser Gln Gln Ser Leu Gly Gly Lys Gly Gly  
 165 170 175  
 Ala Gly Arg Thr His Ala Pro Ser Ala Ala Arg Glu Arg Gly Ala Ala  
 180 185 190  
 Pro Pro Gly Asp Arg Arg Val Thr Ala Arg Pro Arg Ala Ala Val Thr  
 195 200 205  
 Ser Arg Glu Ala His Ala His Lys Gly Trp Gly Val Arg Gly Gly Ser  
 210 215 220

Ser Ala Ala Pro Ala Gln Leu Leu Arg Glu Ala Gly Ser Ala Pro Ser  
 225                      230                      235                      240  
 Gly Arg Gly Val Ser Phe Pro Arg Arg Ala Gly Gly Pro Leu Phe Pro  
                          245                      250                      255  
 Arg Ala Ala Ala Glu Ala Pro Pro Ser Ala Ser Trp Pro Cys Val His  
                          260                      265                      270  
 Thr Pro Asp Cys Gly Pro Gly Arg Thr Leu Ser Ser Cys Ala Glu Arg  
                          275                      280                      285  
 Arg Arg Pro Glu Val Arg Ala Ala Arg Ala Gly Pro Ala Pro Arg Thr  
                          290                      295                      300  
 Ala Pro Thr Arg Gly Trp Pro Gly Gln Gly Pro Gly Gly Pro Gly Ser  
 305                      310                      315                      320  
 Gly Val

<210> 3443

<211> 267

<212> PRT

<213> Homo sapiens

<400> 3443

Met Lys Ala Glu Ala Thr Val Ile Pro Ser Arg Cys Ala Arg Gly Leu  
 1                      5                      10                      15  
 Pro Ser Trp Gln Val Leu Ser Pro Val Gln Pro Trp Gln Thr Ser Ala  
                          20                      25                      30  
 Pro Gln Asn Thr Thr Gln Pro Lys Leu Leu Ala Pro His Gln His Asp  
                          35                      40                      45  
 Lys Ser Gln Lys Lys Ser Ser Leu Leu Lys Glu Leu Gly Ala Phe His

50	55	60
Ile Thr Ile Ala Leu Leu His Leu Val Phe Gly Gly Tyr Leu Ala Ser		
65	70	75
Ile Val Lys Asn Leu His Leu Val Val Leu Lys Ser Trp Tyr Pro Phe		
85	90	95
Trp Gly Ala Ala Ser Phe Leu Ile Ser Gly Ile Leu Ala Ile Thr Met		
100	105	110
Lys Thr Phe Ser Lys Thr Tyr Leu Lys Met Leu Cys Leu Met Thr Asn		
115	120	125
Leu Ile Ser Leu Phe Cys Val Leu Ser Gly Leu Phe Val Ile Ser Lys		
130	135	140
Asp Leu Phe Leu Glu Ser Pro Phe Glu Ser Pro Ile Trp Arg Met Tyr		
145	150	155
Pro Asn Ser Thr Val His Ile Gln Arg Leu Glu Leu Ala Leu Leu Cys		
165	170	175
Phe Thr Val Leu Glu Leu Phe Leu Pro Val Pro Thr Ala Val Thr Ala		
180	185	190
Trp Arg Gly Asp Cys Pro Ser Ala Lys Asn Asp Asp Ala Cys Leu Val		
195	200	205
Pro Asn Thr Pro Leu His Leu Lys Gly Leu Pro Val Glu Pro Pro Pro		
210	215	220
Ser Tyr Gln Ser Val Ile Gln Gly Asp Ala Gln His Lys Gln His Gln		
225	230	235
Arg Leu Arg Glu Val Lys Gln Val Ala Pro Asp Thr Trp Ile Val Thr		
245	250	255
Asp Gly Ala Ala Ile Trp Ala Gln Thr Ala Asn		
260	265	

&lt;210&gt; 3444

&lt;211&gt; 497

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3444

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Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Val Val Ile Ile Lys Gly
  1           5           10           15
Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Thr
           20           25           30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
           35           40           45
Gly Asp Phe Tyr Met Thr Trp Leu Arg Gln Val Pro Gly Lys Asp Leu
           50           55           60
Glu Trp Leu Ala Tyr Ile Ser Ser Asn Gly Gly Tyr Ser Glu Tyr Ala
           65           70           75           80
Asp Ser Val Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Val Lys Asn
           85           90           95
Ser Leu His Leu Gln Met Asn Ser Leu Arg Ala Gln Asp Thr Ala Ile
           100          105          110
Tyr Tyr Cys Ala Arg Phe Thr Val Ser Met Asp Thr Val Ala Tyr Ser
           115          120          125
Tyr Gly Leu Asp Val Trp Gly Pro Gly Thr Ala Val Thr Val Ser Ser
           130          135          140
Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr
           145          150          155          160
Gln Pro Asp Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe
           165          170          175
Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val

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180	185	190
Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr		
195	200	205
Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly		
210	215	220
Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp		
225	230	235
Val Thr Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro		
245	250	255
Ser Thr Pro Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser		
260	265	270
Leu His Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn		
275	280	285
Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe		
290	295	300
Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Glu		
305	310	315
Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys		
325	330	335
Ala Glu Pro Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr		
340	345	350
Pro Glu Ser Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn		
355	360	365
Thr Phe Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu		
370	375	380
Ala Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser		
385	390	395
Pro Lys Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro		
405	410	415

Arg Glu Lys Tyr Leu Thr Trp Ala Ser Trp Gln Glu Pro Ser Gln Gly  
                     420                    425                    430  
 Thr Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp  
                     435                    440                    445  
 Trp Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu  
                     450                    455                    460  
 Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro  
 465                    470                    475                    480  
 Thr His Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys  
                     485                    490                    495  
 Tyr

<210> 3445

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3445

Met Ala Gly Leu Ala Arg Arg Val Val Gly Ala Phe Leu Leu Phe His  
           1                    5                    10                    15  
 Phe Lys Gln Lys Ser Gly Ala Glu Thr Gly Glu Ala Ala Leu His Leu  
                     20                    25                    30  
 Gly Arg Ser Pro Val Leu Pro Ala Arg Ala Gly Ile Leu Arg Thr Cys  
                     35                    40                    45  
 Leu Ser Leu Arg Ala Val Thr Ser Pro Gln Asp Phe Gly Ser Ala Gln  
                     50                    55                    60  
 Arg Thr Arg Ser Ala Pro Leu Gly Pro Ile Asn Gln Ala Ser Arg Arg

65	70	75	80												
Val	Gln	Pro	Gly	Lys	Ala	Asn	Pro	Glu	Arg	Arg	Ala	Asn	Asp	Ser	Asp
				85					90					95	
Ser	Gln	Gly	Lys	Ala											
				100											

&lt;210&gt; 3446

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3446

Met	His	Gly	Glu	Lys	Ser	His	Gly	Arg	Gly	Gln	Ala	Gly	Arg	Gln	Val
1				5					10					15	
Pro	Leu	Lys	Gln	Gln	Ser	Val	Ser	Gly	Glu	Ser	Gln	Gln	Gly	Ala	Arg
			20					25					30		
Gln	Gly	Ala	Gly	Gln	Ser	Thr	Cys	Tyr	Leu	Ser	Ser	Ala	Phe	Leu	Cys
		35					40					45			
Asn	Gly	Ser	Phe	Pro	Ala	Gly	Ser	Met	Ser	Leu	Trp	Asp	Pro	Gln	Pro
	50					55					60				
Lys	Gln	Ala	Phe	Pro	Ser	Val	Leu	Trp	Cys	Ser	Trp	Ala	Gly	Val	Pro
65				70					75					80	
Gly	Arg	Arg	Thr	Gly	Gln	Arg	Asp	Pro	Arg	Val	Gln	Glu	Arg	Arg	Gly
				85					90					95	
Asp	Phe	Val	Ser	Lys	Leu	Gly	Ala	Ala	Val	Gly	Gly	Glu	Pro	Leu	Ala
				100				105					110		
Leu	Phe	Gly	Pro	His	Ser	Trp	Pro	Gly	Met	Gly	His	Arg	Val	Pro	Gly
				115				120					125		

Leu Gly Ala Gly Phe Leu Leu Phe Ala Gly Phe Ala Leu Glu Pro Trp  
 130 135 140  
 Asp Ser Tyr His Val Val Phe Glu Gly Trp Thr Ile Asp Met Arg Arg  
 145 150 155 160  
 Asn Glu Pro Glu Arg Thr Arg Ser Leu Ser Ala Pro Gly Pro Leu  
 165 170 175

<210> 3447

<211> 487

<212> PRT

<213> Homo sapiens

<400> 3447

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly  
 1 5 10 15  
 Val His Cys Glu Ala Gln Val Val Glu Ser Gly Gly Gly Leu Val Gln  
 20 25 30  
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Phe  
 35 40 45  
 Ser Ser Phe Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
 50 55 60  
 Glu Trp Val Ala Ser Ile Asn Lys Asp Gly Arg Asp Ser Tyr Tyr Val  
 65 70 75 80  
 Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Thr  
 85 90 95  
 Ser Leu Tyr Leu Gln Met Gly Ser Leu Arg Ala Glu Asp Thr Ala Val  
 100 105 110  
 Tyr Tyr Cys Ala Arg Lys Phe Met Phe Asp Ser Trp Ser Ser Tyr Tyr

115	120	125
Val Glu Gly His Tyr Phe Asp Leu Trp Gly Arg Gly Thr Gln Val Thr		
130	135	140
Val Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu		
145	150	155
Asp Ser Thr Pro Gln Asp Gly Asn Val Val Val Ala Cys Leu Val Gln		
165	170	175
Gly Phe Phe Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly		
180	185	190
Gln Asn Val Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly		
195	200	205
Asp Leu Tyr Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys		
210	215	220
Pro Asp Gly Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro		
225	230	235
Ser Gln Asp Val Thr Val Pro Cys Pro Val Pro Pro Pro Pro Cys		
245	250	255
Cys His Pro Arg Leu Ser Leu His Arg Pro Ala Leu Glu Asp Leu Leu		
260	265	270
Leu Gly Ser Glu Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp		
275	280	285
Ala Ser Gly Ala Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala		
290	295	300
Val Gln Gly Pro Pro Glu Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser		
305	310	315
Ser Val Leu Pro Gly Cys Ala Gln Pro Trp Asn His Gly Glu Thr Phe		
325	330	335
Thr Cys Thr Ala Ala His Pro Glu Leu Lys Thr Pro Leu Thr Ala Asn		
340	345	350

Ile Thr Lys Ser Gly Asn Thr Phe Arg Pro Glu Val His Leu Leu Pro

355

360

365

Pro Pro Ser Glu Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys

370

375

380

Leu Ala Arg Gly Phe Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln

385

390

395

400

Gly Ser Gln Glu Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg

405

410

415

Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu

420

425

430

Arg Val Ala Ala Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met

435

440

445

Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp

450

455

460

Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala

465

470

475

480

Glu Val Asp Gly Thr Cys Tyr

485

<210> 3448

<211> 167

<212> PRT

<213> Homo sapiens

<400> 3448

Met Ala Ser Phe Pro Leu Leu Leu Thr Leu Leu Thr His Cys Ala Gly

1

5

10

15

Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Pro Arg Gln Asp Trp Thr Gly Ser Thr Pro Ala Tyr Gly Tyr Trp Phe  
                     20                                    25                                    30  
 Lys Ala Val Thr Glu Thr Thr Lys Gly Ala Pro Val Ala Thr Asn His  
                     35                                    40                                    45  
 Gln Ser Arg Glu Val Glu Met Ser Thr Arg Gly Arg Phe Gln Leu Thr  
                     50                                    55                                    60  
 Gly Asp Pro Ala Lys Gly Asn Cys Ser Leu Val Ile Arg Asp Ala Gln  
                     65                                    70                                    75                                    80  
 Met Gln Asp Glu Ser Gln Tyr Phe Phe Arg Val Glu Arg Gly Ser Tyr  
                                     85                                    90                                    95  
 Val Arg Tyr Asn Phe Met Asn Asp Gly Phe Phe Leu Lys Val Thr Val  
                     100                                    105                                    110  
 Leu Ser Phe Thr Pro Arg Pro Gln Asp His Asn Thr Asp Leu Thr Cys  
                     115                                    120                                    125  
 His Val Asp Phe Ser Arg Lys Gly Val Ser Val Gln Arg Thr Val Arg  
                     130                                    135                                    140  
 Leu Arg Val Ala Tyr Ala Pro Arg Asp Leu Val Ile Ser Ile Ser Arg  
                     145                                    150                                    155                                    160  
 Asp Asn Thr Pro Asp Pro Pro Glu Asn Leu Arg Val Met Val Ser Gln  
                                     165                                    170                                    175  
 Ala Asn Arg Thr Val Leu Glu Asn Leu Gly Asn Gly Thr Ser Leu Pro  
                     180                                    185                                    190  
 Val Leu Glu Gly Gln Ser Leu Cys Leu Val Cys Val Thr His Ser Ser  
                     195                                    200                                    205  
 Pro Pro Ala Arg Leu Ser Trp Thr Gln Arg Gly Gln Val Leu Ser Pro  
                     210                                    215                                    220  
 Ser Gln Pro Ser Asp Pro Gly Val Leu Glu Leu Pro Arg Val Gln Val  
                     225                                    230                                    235                                    240  
 Glu His Glu Gly Glu Phe Thr Cys His Ala Arg His Pro Leu Gly Ser

	245		250		255
Gln His Val Ser Leu Ser Leu Ser Val His Tyr Lys Lys Gly Leu Ile					
	260		265		270
Ser Thr Ala Phe Ser Asn Gly Ala Phe Leu Gly Ile Gly Ile Thr Ala					
	275		280		285
Leu Leu Phe Leu Cys Leu Ala Leu Ile Ile Met Lys Ile Leu Pro Lys					
	290		295		300
Arg Arg Thr Gln Thr Glu Thr Pro Arg Pro Arg Phe Ser Arg His Ser					
305		310		315	320
Thr Ile Leu Asp Tyr Ile Asn Val Val Pro Thr Ala Gly Pro Leu Val					
	325		330		335
Gln Lys Arg Asn Gln Lys Ala Thr Pro Ser Ser Pro Arg Thr Pro Leu					
	340		345		350
Pro Pro Gly Ala Pro Ser Pro Glu Ser Lys Lys Asn Gln Lys Lys Gln					
	355		360		365
Tyr Gln Leu Pro Ser Phe Pro Glu Pro Lys Ser Ser Thr Gln Ala Pro					
	370		375		380
Glu Ser Gln Glu Ser Gln Glu Glu Leu His Tyr Ala Thr Leu Asn Phe					
385		390		395	400
Pro Gly Val Arg Pro Arg Pro Glu Ala Arg Met Pro Lys Gly Thr Gln					
	405		410		415
Ala Asp Tyr Ala Glu Val Lys Phe Gln					
	420		425		

&lt;210&gt; 3450

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3450

Met Val Thr Leu Arg Ser Lys Leu Gly Pro Leu Glu Ile Gln Gln Phe  
 1 5 10 15  
 Ala Met Leu Leu Arg Glu Tyr Arg Leu Gly Leu Pro Ile Gln Asp Tyr  
 20 25 30  
 Cys Thr Gly Leu Leu Lys Leu Tyr Gly Asp Arg Arg Lys Phe Leu Leu  
 35 40 45  
 Leu Gly Met Arg Pro Phe Ile Pro Asp Gln Asp Ile Gly Tyr Phe Glu  
 50 55 60  
 Gly Phe Leu Glu Gly Val Gly Ile Arg Glu Gly Gly Ile Leu Thr Asp  
 65 70 75 80  
 Ser Phe Gly Arg Ile Lys Arg Ser Met Ser Ser Thr Ser Ala Ser Ala  
 85 90 95  
 Val Arg Ser Tyr Asp Gly Ala Ala Gln Arg Pro Glu Ala Gln Ala Phe  
 100 105 110  
 His Arg Leu Leu Ala Asp Ile Thr His Asp Ile Glu Ala Leu Ala Pro  
 115 120 125  
 Asp Asp Asp Asp Asp Asp Glu Asp Glu Pro Arg Gly Ser Arg Gly Gly  
 130 135 140  
 Ser Asp Ala Ala Glu Asp Asn Tyr Leu  
 145 150

&lt;210&gt; 3451

&lt;211&gt; 436

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3451

Met	Arg	Arg	Asp	Val	Asn	Gly	Val	Thr	Lys	Ser	Arg	Phe	Glu	Met	Phe
1				5					10					15	
Ser	Asn	Ser	Asp	Glu	Ala	Val	Ile	Asn	Lys	Lys	Leu	Pro	Lys	Glu	Leu
			20					25					30		
Leu	Leu	Arg	Ile	Phe	Ser	Phe	Leu	Asp	Val	Val	Thr	Leu	Cys	Arg	Cys
		35					40					45			
Ala	Gln	Val	Ser	Arg	Ala	Trp	Asn	Val	Leu	Ala	Leu	Asp	Gly	Ser	Asn
	50					55					60				
Trp	Gln	Arg	Ile	Asp	Leu	Phe	Asp	Phe	Gln	Arg	Asp	Ile	Glu	Gly	Arg
65					70					75				80	
Val	Val	Glu	Asn	Ile	Ser	Lys	Arg	Cys	Gly	Gly	Phe	Leu	Arg	Lys	Leu
			85						90				95		
Ser	Leu	Arg	Gly	Cys	Leu	Gly	Val	Gly	Asp	Asn	Ala	Leu	Arg	Thr	Phe
		100						105					110		
Ala	Gln	Asn	Cys	Arg	Asn	Ile	Glu	Val	Leu	Asn	Leu	Asn	Gly	Cys	Thr
	115						120					125			
Lys	Thr	Thr	Asp	Ala	Thr	Cys	Thr	Ser	Leu	Ser	Lys	Phe	Cys	Ser	Lys
	130					135					140				
Leu	Arg	His	Leu	Asp	Leu	Ala	Ser	Cys	Thr	Ser	Ile	Thr	Asn	Met	Ser
145					150					155				160	
Leu	Lys	Ala	Leu	Ser	Glu	Gly	Cys	Pro	Leu	Leu	Glu	Gln	Leu	Asn	Ile
			165						170				175		
Ser	Trp	Cys	Asp	Gln	Val	Thr	Lys	Asp	Gly	Ile	Gln	Ala	Leu	Val	Arg
		180						185					190		
Gly	Cys	Gly	Gly	Leu	Lys	Ala	Leu	Phe	Leu	Lys	Gly	Cys	Thr	Gln	Leu
	195						200					205			
Glu	Asp	Glu	Ala	Leu	Lys	Tyr	Ile	Gly	Ala	His	Cys	Pro	Glu	Leu	Val
	210						215					220			

Thr Leu Asn Leu Gln Thr Cys Leu Gln Ile Thr Asp Glu Gly Leu Ile  
 225                      230                      235                      240  
 Thr Ile Cys Arg Gly Cys His Lys Leu Gln Ser Leu Cys Ala Ser Gly  
                          245                      250                      255  
 Cys Ser Asn Ile Thr Asp Ala Ile Leu Asn Ala Leu Gly Gln Asn Cys  
                          260                      265                      270  
 Pro Arg Leu Arg Ile Leu Glu Val Ala Arg Cys Ser Gln Leu Thr Asp  
                          275                      280                      285  
 Val Gly Phe Thr Thr Leu Ala Arg Asn Cys His Glu Leu Glu Arg Met  
                          290                      295                      300  
 Asp Leu Glu Glu Cys Val Gln Ile Thr Asp Ser Thr Leu Ile Gln Leu  
 305                      310                      315                      320  
 Ser Ile His Cys Pro Arg Leu Gln Val Leu Ser Leu Ser His Cys Glu  
                          325                      330                      335  
 Leu Ile Thr Asp Asp Gly Ile Arg His Leu Gly Asn Gly Ala Cys Ala  
                          340                      345                      350  
 His Asp Gln Leu Glu Val Ile Glu Leu Asp Asn Cys Pro Leu Ile Thr  
                          355                      360                      365  
 Asp Ala Ser Leu Glu His Leu Lys Ser Cys His Ser Leu Glu Arg Ile  
                          370                      375                      380  
 Glu Leu Tyr Asp Cys Gln Gln Ile Thr Arg Ala Gly Ile Lys Arg Leu  
 385                      390                      395                      400  
 Arg Thr His Leu Pro Asn Ile Lys Val Tyr Ala Tyr Phe Ser Pro Val  
                          405                      410                      415  
 Thr Pro Pro Pro Ser Val Gly Gly Ser Arg Gln Arg Phe Cys Arg Cys  
                          420                      425                      430  
 Cys Ile Ile Leu  
                          435

&lt;210&gt; 3452

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3452

Met Gly Ala Thr Glu Ala Ala Gly Gly Ala Ala Val Ser Arg Ala Arg

1 5 10 15

Asn Gln Thr Trp Thr Ala Leu Gly Pro Gly Cys Arg Asp Gln Val Thr

20 25 30

Arg Ser Pro Glu Gly Cys Trp Pro Arg Ser Gln Asn Pro Gly Ala Ala

35 40 45

Arg Thr Ile Gly Ser Ser Leu Tyr Gly Thr Gly Asp Arg His Pro Ala

50 55 60

Leu Val Pro Cys Ala Val Ala Asp Gly Glu Thr Glu Ala Ser Ser Leu

65 70 75 80

Pro Gly Ile Thr Val Ile Leu Glu Gln Arg Gly Pro Glu Arg Ala Cys

85 90 95

Ser Trp Pro Lys Val Thr Gln

100

&lt;210&gt; 3453

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3453

Met Ala Ser Asp Asp Phe Asp Ile Val Ile Glu Ala Met Leu Glu Ala  
1 5 10 15  
Pro Tyr Lys Lys Glu Glu Asp Glu Gln Gln Arg Lys Glu Val Lys Lys  
20 25 30  
Asp Tyr Pro Ser Asn Thr Thr Ser Ser Thr Ser Asn Ser Gly Asn Glu  
35 40 45  
Thr Ser Gly Ser Ser Thr Ile Gly Glu Thr Ser Lys Lys Lys Arg Ser  
50 55 60  
Arg Ser His Asn Lys Ser Arg Asp Arg Lys Arg Ser Arg Ser Arg Asp  
65 70 75 80  
Arg Asp Arg Tyr Arg Arg Arg Asn Ser Arg Ser Arg Ser Pro Gly Arg  
85 90 95  
Gln Cys Arg His Arg Ser Arg Ser Trp Asp Arg Arg His Gly Ser Glu  
100 105 110  
Ser Arg Ser Arg Asp His Arg Arg Glu Asp Arg Val His Tyr Arg Ser  
115 120 125  
Pro Pro Leu Ala Thr Gly Tyr Arg Tyr Gly His Ser Lys Ser Pro His  
130 135 140  
Phe Arg Glu Lys Ser Pro Val Arg Glu Pro Val Asp Asn Leu Ser Pro  
145 150 155 160  
Glu Glu Arg Asp Ala Arg Thr Val Phe Cys Met Gln Leu Ala Ala Arg  
165 170 175  
Ile Arg Pro Arg Asp Leu Glu Asp Phe Phe Ser Ala Val Gly Lys Val  
180 185 190  
Arg Asp Val Cys Ile Ile Ser Asp Arg Asn Ser Arg Arg Ser Lys Gly  
195 200 205  
Ile Ala Tyr Val Glu Phe Cys Glu Ile Gln Ser Val Pro Leu Ala Ile  
210 215 220  
Gly Leu Thr Gly Gln Arg Leu Leu Gly Val Pro Ile Ile Val Gln Ala

225                      230                      235                      240  
 Ser Gln Ala Glu Lys Asn Arg Leu Ala Ala Met Ala Asn Asp Leu Gln  
                          245                      250                      255  
 Lys Gly Asn Gly Gly Pro Met Arg Leu Tyr Val Gly Ser Leu His Phe  
                          260                      265                      270  
 Asn Ile Thr Glu Asp Met Leu Arg Gly Ile Phe Glu Pro Phe Gly Lys  
                          275                      280                      285  
 Ile Asp Asn Ile Val Leu Met Lys Asp Ser Asp Thr Gly Arg Ser Lys  
                          290                      295                      300  
 Gly Tyr Gly Phe Ile Thr Leu His Pro Pro Pro Leu Gly Thr Val  
 305                      310                      315

<210> 3454

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3454

Met Gly Lys Arg Asp Pro Arg Ala Gln Leu Phe Leu Pro Ser Ala Gly  
     1                      5                      10                      15  
 Leu Leu Gln Thr Ser Arg Leu His Cys Arg Leu Arg His Phe Leu Ala  
                          20                      25                      30  
 Glu Pro Pro Ser Phe Leu Leu Ser Phe Gln Leu Leu Leu His Cys  
                          35                      40                      45  
 Pro Phe Leu Ser Pro Leu Ser Cys Thr Ser Ala Ser Ile Leu Ala Ser  
                          50                      55                      60  
 Ser Ser Leu Lys Thr Gln Pro Asp Thr Ile Ser Ile Ile Thr Leu Phe  
                          65                      70                      75                      80

Ile Ser Gln Trp Arg Arg Trp Gly Ser Arg Gln Glu Arg Gln Ser Val  
                             85                            90                            95  
 Asn Met Leu Pro Leu Lys Phe Cys Thr Ala Leu Ser Leu Leu Gly Leu  
                             100                            105                            110  
 Trp Ala Lys Ile Lys Cys Lys Ser Leu Tyr Tyr Ser  
                             115                            120

<210> 3455

<211> 375

<212> PRT

<213> Homo sapiens

<400> 3455

Met Glu Asp Ser Glu Ala Leu Gly Phe Glu His Met Gly Leu Asp Pro  
     1                            5                            10                            15  
 Arg Leu Leu Gln Ala Val Thr Asp Leu Gly Trp Ser Arg Pro Thr Leu  
                             20                            25                            30  
 Ile Gln Glu Lys Ala Ile Pro Leu Ala Leu Glu Gly Lys Asp Leu Leu  
                             35                            40                            45  
 Ala Arg Ala Arg Thr Gly Ser Gly Lys Thr Ala Ala Tyr Ala Ile Pro  
                             50                            55                            60  
 Met Leu Gln Leu Leu Leu His Arg Lys Ala Thr Gly Pro Val Val Glu  
     65                            70                            75                            80  
 Gln Ala Val Arg Gly Leu Val Leu Val Pro Thr Lys Glu Leu Ala Arg  
                             85                            90                            95  
 Gln Ala Gln Ser Met Ile Gln Gln Leu Ala Thr Tyr Cys Ala Arg Asp  
                             100                            105                            110  
 Val Arg Val Ala Asn Val Ser Ala Ala Glu Asp Ser Val Ser Gln Arg

115	120	125	
Ala Val Leu Met Glu Lys Pro Asp Val Val Val Gly Thr Pro Ser Arg			
130	135	140	
Ile Leu Ser His Leu Gln Gln Asp Ser Leu Lys Leu Arg Asp Ser Leu			
145	150	155	160
Glu Leu Leu Val Val Asp Glu Ala Asp Leu Leu Phe Ser Phe Gly Phe			
165	170	175	
Glu Glu Glu Leu Lys Ser Leu Leu Cys His Leu Pro Arg Ile Tyr Gln			
180	185	190	
Ala Phe Leu Met Ser Ala Thr Phe Asn Glu Asp Val Gln Ala Leu Lys			
195	200	205	
Glu Leu Ile Leu His Asn Pro Val Thr Leu Lys Leu Gln Glu Ser Gln			
210	215	220	
Leu Pro Gly Pro Asp Gln Leu Gln Gln Phe Gln Val Val Cys Glu Thr			
225	230	235	240
Glu Glu Asp Lys Phe Leu Leu Leu Tyr Ala Leu Leu Lys Leu Ser Leu			
245	250	255	
Ile Arg Gly Lys Ser Leu Leu Phe Val Asn Thr Leu Glu Arg Ser Tyr			
260	265	270	
Arg Leu Arg Leu Phe Leu Glu Gln Phe Ser Ile Pro Thr Cys Val Leu			
275	280	285	
Asn Gly Glu Leu Pro Leu Arg Ser Arg Cys His Ile Ile Ser Gln Phe			
290	295	300	
Asn Gln Gly Phe Tyr Asp Cys Val Ile Ala Thr Asp Ala Glu Val Leu			
305	310	315	320
Gly Ala Pro Val Lys Gly Lys Arg Arg Gly Arg Gly Pro Lys Gly Asp			
325	330	335	
Lys Ala Ser Asp Pro Glu Ala Gly Val Ala Arg Gly Ile Asp Phe His			
340	345	350	

His Val Ser Ala Val Leu Asn Phe Asp Leu Pro Pro Thr Pro Glu Ala

355

360

365

Tyr Ile His Arg Ala Gly Arg

370

375

<210> 3456

<211> 309

<212> PRT

<213> Homo sapiens

<400> 3456

Met Leu Pro Glu Asp Ser Gly Gly Ser Pro Asp Ala Ala Ala Ser Asp

1

5

10

15

Lys His Ile Gln Trp Leu Leu Gly Ala Asp Gly Glu Val Trp Val Trp

20

25

30

Ile Met Gly Glu Gly Pro Gly Asp Lys Pro Tyr Glu Glu Ile Ser Glu

35

40

45

Glu Leu Ile Ala Glu Arg Ala Arg Leu Gln Ala Gln Arg Glu Ala Glu

50

55

60

Glu Leu Trp Arg Gln Lys Glu Ala Glu Ile Thr Lys Lys Phe Arg Asp

65

70

75

80

Ala Leu Ala Asn Glu Lys Ala Arg Ile Leu Ala Glu Lys Trp Lys Val

85

90

95

Glu Met Glu Asp Arg Lys Ala Ala Lys Val Leu Glu Glu Arg Ile His

100

105

110

Glu Glu Phe Lys Arg Lys Glu Glu Glu Glu Arg Lys Arg Gly Glu Glu

115

120

125

Gln Ile Arg Leu Gln Glu Glu Gln Arg Ala Lys Glu Leu Tyr Trp Thr

130 135 140  
Leu Lys Gln Ala Gln Leu His Cys Gln Ala Ser Glu Lys Glu Glu Arg  
145 150 155 160  
Glu Trp Glu Glu Gln Leu Arg Arg Ser Lys Ala Ala Asp Glu Glu Arg  
165 170 175  
Ser Arg Arg Ala Gln Arg Ala Arg Asp Glu Tyr Arg His His Ser Leu  
180 185 190  
Arg Ala Ile Gln Lys Gly Thr Val Ala Gly Leu Ser Ser Met Phe Arg  
195 200 205  
Glu Leu Gly Gln Ser His Glu Gln Glu Ala Arg Leu Tyr His His Leu  
210 215 220  
Pro Asp Pro Gly Leu Pro Gln Pro Leu Ala Leu Pro Val Ser Arg Thr  
225 230 235 240  
Trp Glu Arg Pro Leu Arg Pro Val Ser Arg Asp Val Ile Val Arg Trp  
245 250 255  
Phe Lys Glu Glu Gln Leu Pro Arg Arg Ala Gly Phe Glu Arg Asn Thr  
260 265 270  
Lys Phe Ile Ala Pro Trp Phe His Gly Gly Asn Tyr His Cys Phe Arg  
275 280 285  
Arg Arg Val Thr Ser Gly Thr Leu Arg Thr Glu Gly Gln Pro Thr Arg  
290 295 300  
Leu Pro Ser Val Val  
305

&lt;210&gt; 3457

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3457

Met Gln Ala Ser Leu Leu Leu Ser Cys Leu Pro Leu Ser Ser Leu Ser  
 1 5 10 15  
 Thr Val Ile Val Pro Pro Phe Leu Gln Val Asn Asp Leu Asp Gly Tyr  
 20 25 30  
 Asn Arg Thr Ala Leu His Tyr Ala Ala Glu Lys Asp Glu Ala Cys Val  
 35 40 45  
 Glu Val Leu Leu Glu Tyr Gly Ala Asn Pro Asn Ala Leu Asp Gly Asn  
 50 55 60  
 Arg Asp Thr Pro Leu His Trp Ala Ala Phe Lys Asn Asn Ala Glu Cys  
 65 70 75 80  
 Val Arg Ala Leu Leu Glu Ser Gly Ala Ser Val Asn Ala Leu Asp Tyr  
 85 90 95  
 Asn Asn Asp Thr Pro Leu Ser Trp Ala Ala Met Lys Gly Asn Leu Glu  
 100 105 110  
 Ser Val Ser Ile Leu Leu Asp Tyr Gly Ala Glu Val Arg Val Ile Asn  
 115 120 125  
 Leu Ile Gly Gln Thr Pro Ile Ser Arg Leu Val Ala Leu Leu Val Arg  
 130 135 140  
 Gly Leu Gly Thr Glu Lys Glu Asp Ser Cys Phe Glu Leu Leu His Arg  
 145 150 155 160  
 Ala Val Gly His Phe Glu Leu Arg Lys Asn Gly Thr Met Pro Arg Glu  
 165 170 175  
 Val Ala Arg Asp Pro Gln Leu Cys Glu Lys Leu Thr Val Leu Cys Ser  
 180 185 190  
 Ala Pro Gly Thr Leu Lys Thr Leu Ala Arg Tyr Ala Val Arg Arg Ser  
 195 200 205  
 Leu Gly Leu Gln Tyr Leu Pro Asp Ala Val Lys Gly Leu Pro Leu Pro

出証特 2 0 0 4 - 3 0 5 9 6 6 0

&lt;210&gt; 3459

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3459

Met Lys Val Lys Gln Ala Leu Met Val Thr Leu Thr Gln Gln Asp Arg

1 5 10 15

Tyr Pro Tyr Gln Lys Gly Ile Ser Gly His Arg Asp Arg Arg Ala Arg

20 25 30

Val Glu Thr Pro Glu Asp Glu Asp Gly Ile Tyr Gln Ala Gly Glu Trp

35 40 45

Pro Gln Glu Lys Arg Ala Leu Pro Thr Pro Arg Pro Arg Thr Ser Ser

50 55 60

Leu Gln Ser Arg Val Lys Arg Asn Phe His His Leu Ser Cys Pro Val

65 70 75 80

Cys Gly Thr Leu Pro Arg Gln Pro Glu Gln Thr Val Gln Ala Pro Lys

85 90 95

Thr Leu Ser Ala Cys Val Ile Leu Ala Arg Thr Thr Leu Pro Glu Ala

100 105 110

Thr Ala Met Ser Lys Leu Ile Val Arg Phe Leu Pro Ala Thr Trp Phe

115 120 125

&lt;210&gt; 3460

&lt;211&gt; 126

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3460

Met	Leu	Arg	Leu	Arg	Lys	Gln	Gly	His	Val	Arg	Arg	Arg	Gly	Lys	Ser
1				5					10					15	
Ile	Gly	Glu	Asn	Lys	Asp	Thr	Gly	Gly	Asp	Ala	Thr	Trp	Arg	Ser	Pro
			20					25					30		
Glu	Ser	Arg	Glu	Thr	Asn	Glu	Pro	Arg	Thr	Gln	Met	Ala	Lys	Lys	Lys
		35				40					45				
Asn	Glu	Arg	Ile	Cys	Lys	Arg	Gln	His	Ser	Asn	Met	Pro	Asn	Lys	Ser
	50					55					60				
Arg	Val	Leu	Val	Phe	Lys	His	Leu	Tyr	Leu	Pro	Arg	Val	Thr	Arg	Gln
	65				70					75				80	
Leu	Ile	Ser	Phe	His	Ile	Cys	Ser	Arg	Phe	Val	Phe	Arg	Asn	Lys	Thr
				85					90					95	
His	Val	Leu	Lys	Ser	Cys	Leu	Tyr	Val	Ala	Pro	Val	Leu	Leu	Pro	Pro
		100						105					110		
Pro	Pro	Val	Leu	Lys	Ser	Ile	Ser	Ala	Leu	Leu	Ile	Tyr	Gly		
		115						120					125		

&lt;210&gt; 3461

&lt;211&gt; 521

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3461

Met	Glu	Phe	Gly	Leu	Ser	Trp	Ile	Phe	Leu	Val	Val	Thr	Leu	Lys	Gly
1				5					10					15	
Val	His	Cys	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys
			20					25					30		

Pro Gly Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe  
 35 40 45  
 Ser Asn Thr Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
 50 55 60  
 Glu Trp Val Gly Arg Ile Ser Thr Asp Ser Glu Gly Ala Thr Val Asp  
 65 70 75 80  
 Tyr Ala Ala Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser  
 85 90 95  
 Lys Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Gln Val Glu Asp Thr  
 100 105 110  
 Ala Val Tyr Tyr Cys Ser Thr Gly Pro Ser Arg Val Pro Gly Thr Gln  
 115 120 125  
 Arg Tyr Phe Asp Phe Trp Gly Arg Gly Thr Arg Val Thr Val Ser Ser  
 130 135 140  
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
 145 150 155 160  
 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
 165 170 175  
 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
 180 185 190  
 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
 195 200 205  
 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
 210 215 220  
 Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
 225 230 235 240  
 Arg Val Glu Leu Lys Thr Pro Leu Gly Asp Thr Thr His Thr Cys Pro  
 245 250 255  
 Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg

260	265	270
Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys		
275	280	285
Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro		
290	295	300
Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys		
305	310	315
Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val		
325	330	335
Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Lys Trp Tyr		
340	345	350
Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu		
355	360	365
Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Leu His		
370	375	380
Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys		
385	390	395
Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln		
405	410	415
Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met		
420	425	430
Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro		
435	440	445
Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro Glu Asn Asn		
450	455	460
Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu		
465	470	475
Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Ile		
485	490	495

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln  
500 505 510  
Lys Ser Leu Ser Leu Ser Pro Gly Lys  
515 520

<210> 3462

<211> 551

<212> PRT

<213> Homo sapiens

<400> 3462

Met Ile Ser Pro Asp Pro Arg Pro Ser Pro Gly Leu Ala Arg Trp Ala  
1 5 10 15  
Glu Ser Tyr Glu Ala Lys Cys Glu Arg Arg Gln Glu Ile Arg Glu Ser  
20 25 30  
Arg Arg Cys Arg Pro Asn Val Thr Thr Cys Arg Gln Val Gly Lys Thr  
35 40 45  
Leu Arg Ile Gln Gln Arg Glu Gln Leu Gln Arg Ala Arg Leu Gln Gln  
50 55 60  
Phe Phe Arg Arg Arg Asn Leu Glu Leu Glu Glu Lys Gly Lys Ala Gln  
65 70 75 80  
His Pro Gln Ala Arg Glu Gln Gly Pro Ser Arg Arg Pro Gly Gln Val  
85 90 95  
Thr Val Leu Lys Glu Pro Leu Ser Cys Ala Arg Arg Ile Ser Ser Pro  
100 105 110  
Arg Glu Gln Val Thr Gly Thr Ser Ser Glu Val Phe Pro Ala Gln His  
115 120 125  
Pro Pro Pro Ser Gly Ile Cys Arg Asp Leu Ser Asp His Leu Ser Ser

130 135 140  
Gln Ala Gly Gly Leu Pro Pro Gln Asp Thr Pro Ile Lys Lys Pro Pro  
145 150 155 160  
Lys His His Arg Gly Thr Gln Thr Lys Ala Glu Gly Pro Thr Ile Lys  
165 170 175  
Asn Asp Ala Ser Gln Gln Thr Asn Tyr Gly Val Ala Val Leu Asp Lys  
180 185 190  
Glu Ile Ile Gln Leu Ser Asp Tyr Leu Lys Glu Ala Leu Gln Arg Glu  
195 200 205  
Leu Val Leu Lys Gln Lys Met Val Ile Leu Gln Asp Leu Leu Ser Thr  
210 215 220  
Leu Ile Gln Ala Ser Asp Ser Ser Trp Lys Gly Gln Leu Asn Glu Asp  
225 230 235 240  
Lys Leu Lys Gly Lys Leu Arg Ser Leu Glu Asn Gln Leu Tyr Thr Cys  
245 250 255  
Thr Gln Lys Tyr Ser Pro Trp Gly Met Lys Lys Val Leu Leu Glu Met  
260 265 270  
Glu Asp Gln Lys Asn Ser Tyr Glu Gln Lys Ala Lys Glu Ser Leu Gln  
275 280 285  
Lys Val Leu Glu Glu Lys Met Asn Ala Glu Gln Gln Leu Gln Ser Thr  
290 295 300  
Gln Arg Ser Leu Ala Leu Ala Glu Gln Lys Cys Glu Glu Trp Arg Ser  
305 310 315 320  
Gln Tyr Glu Ala Leu Lys Glu Asp Trp Arg Thr Leu Gly Thr Gln His  
325 330 335  
Arg Glu Leu Glu Ser Gln Leu His Val Leu Gln Ser Lys Leu Gln Gly  
340 345 350  
Ala Asp Ser Arg Asp Leu Gln Met Asn Gln Ala Leu Arg Phe Leu Glu  
355 360 365

Asn Glu His Gln Glu Leu Gln Ala Lys Ile Glu Cys Leu Gln Gly Asp  
370 375 380  
Arg Asp Leu Cys Ser Leu Asp Thr Gln Asp Leu Gln Asp Gln Leu Lys  
385 390 395 400  
Arg Ser Glu Ala Glu Lys Leu Thr Leu Val Thr Arg Val Gln Gln Leu  
405 410 415  
Gln Gly Leu Leu Gln Asn Gln Ser Leu Gln Leu Gln Glu Gln Glu Lys  
420 425 430  
Leu Leu Thr Lys Lys Asp Gln Ala Leu Pro Val Trp Ser Pro Lys Ser  
435 440 445  
Phe Pro Asn Glu Val Glu Pro Glu Gly Thr Gly Lys Glu Lys Asp Trp  
450 455 460  
Asp Leu Arg Asp Gln Leu Gln Lys Lys Thr Leu Gln Leu Gln Ala Lys  
465 470 475 480  
Glu Lys Glu Cys Arg Glu Leu His Ser Glu Leu Gly Asn Leu Ser Asp  
485 490 495  
Glu Tyr Leu Ser Cys Leu Arg Lys Leu Gln His Cys Arg Glu Glu Leu  
500 505 510  
Asn Gln Ser Gln Gln Leu Pro Pro Arg Arg Gln Cys Gly Arg Trp Leu  
515 520 525  
Pro Val Leu Met Val Val Ile Ala Ala Ala Leu Ala Val Phe Leu Ala  
530 535 540  
Asn Lys Asp Asn Leu Met Ile  
545 550

&lt;210&gt; 3463

&lt;211&gt; 1047

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3463

Met Ala Glu Lys Arg Pro Leu Arg Thr Leu Gly Pro Val Met Tyr Gly  
 1 5 10 15  
 Lys Leu Pro Arg Leu Glu Thr Asp Ser Gly Leu Glu His Ser Leu Pro  
 20 25 30  
 His Ser Val Gly Asn Gln Asp Pro Cys Thr Tyr Lys Gly Ser Tyr Phe  
 35 40 45  
 Ser Cys Pro Met Ala Gly Thr Pro Lys Ala Glu Ser Glu Gln Leu Ala  
 50 55 60  
 Ser Trp Thr Pro Tyr Pro Pro Leu Tyr Ser Thr Gly Met Ala Gly Pro  
 65 70 75 80  
 Pro Leu Gln Ala Asp Asn Leu Leu Thr Asn Cys Leu Phe Tyr Arg Ser  
 85 90 95  
 Pro Ala Glu Gly Pro Glu Lys Met Gln Asp Ser Ser Pro Val Glu Leu  
 100 105 110  
 Leu Pro Phe Ser Pro Gln Ala His Ser Tyr Pro Gly Pro Pro Leu Ala  
 115 120 125  
 Ala Pro Lys Pro Val Tyr Arg Asn Pro Leu Cys Tyr Gly Leu Ser Thr  
 130 135 140  
 Cys Leu Gly Glu Gly Ala Val Lys Arg Pro Leu Asp Val Asp Trp Thr  
 145 150 155 160  
 Leu Ala Thr Gly Pro Leu Leu Pro Ser Ala Asp Pro Pro Cys Ser Leu  
 165 170 175  
 Ala Pro Ala Pro Ser Lys Gly Gln Thr Leu Asp Gly Thr Phe Leu Arg  
 180 185 190  
 Gly Val Pro Ala Glu Gly Ser Ser Lys Asp Ser Ser Gly Ser Phe Ser  
 195 200 205

Pro Cys Gln Pro Phe Leu Glu Lys Tyr Gln Thr Ile His Ser Thr Gly  
 210 215 220  
 Phe Leu Ala Ser Arg Tyr Thr Gly Pro Tyr Pro Arg Asn Ser Lys Gln  
 225 230 235 240  
 Ala Met Ser Glu Gly Pro Ser Ser Pro Trp Thr Gln Leu Ala Gln Pro  
 245 250 255  
 Leu Gly Pro Pro Cys Gln Asp Thr Gly Pro Thr His Tyr Pro Pro Pro  
 260 265 270  
 His His Pro Pro Pro His Pro Pro Gln Ala Leu Pro Cys Pro Pro Ala  
 275 280 285  
 Cys Arg His Pro Glu Lys Gln Gly Ser Tyr Ser Pro Ala Leu Pro Leu  
 290 295 300  
 Gln Pro Leu Gly Gly His Lys Gly Thr Gly Tyr Gln Ala Gly Gly Leu  
 305 310 315 320  
 Gly Ser Pro Tyr Leu Arg Gln Gln Ala Ala Gln Ala Pro Tyr Ile Pro  
 325 330 335  
 Pro Leu Gly Leu Asp Ala Tyr Pro Tyr Pro Ser Ala Pro Leu Pro Ala  
 340 345 350  
 Pro Ser Pro Gly Leu Lys Leu Glu Pro Pro Leu Thr Pro Arg Cys Pro  
 355 360 365  
 Leu Asp Phe Ala Pro Gln Thr Leu Ser Phe Pro Tyr Ala Arg Asp Asp  
 370 375 380  
 Leu Ser Leu Tyr Gly Ala Ser Pro Gly Leu Gly Gly Thr Pro Pro Ser  
 385 390 395 400  
 Gln Asn Asn Val Arg Ala Val Pro Gln Pro Gly Ala Phe Gln Arg Ala  
 405 410 415  
 Cys Gln Pro Leu Pro Ala Ser Gln Pro Cys Ser Glu Pro Val Arg Pro  
 420 425 430  
 Ala Gln Glu Ala Glu Glu Lys Thr Trp Leu Pro Ser Cys Arg Lys Glu

435 440 445  
Lys Leu Gln Pro Arg Leu Ser Glu His Ser Gly Pro Pro Ile Val Ile  
450 455 460  
Arg Asp Ser Pro Val Pro Cys Thr Pro Pro Ala Leu Pro Pro Cys Ala  
465 470 475 480  
Arg Glu Cys Gln Ser Leu Pro Gln Lys Glu Asp Ala Arg Pro Pro Ser  
485 490 495  
Ser Pro Pro Met Pro Val Ile Asp Asn Val Phe Ser Leu Ala Pro Tyr  
500 505 510  
Arg Asp Tyr Leu Asp Val Pro Ala Pro Glu Ala Thr Thr Glu Pro Asp  
515 520 525  
Ser Ala Thr Ala Glu Pro Asp Ser Ala Pro Ala Thr Ser Glu Gly Gln  
530 535 540  
Asp Lys Gly Cys Arg Gly Thr Leu Pro Ala Gln Glu Gly Pro Ser Gly  
545 550 555 560  
Ser Lys Pro Leu Arg Gly Ser Leu Lys Glu Glu Val Ala Leu Asp Leu  
565 570 575  
Ser Val Arg Lys Pro Thr Ala Glu Ala Ser Pro Val Lys Ala Ser Arg  
580 585 590  
Ser Val Glu His Ala Lys Pro Thr Ala Ala Met Asp Val Pro Asp Val  
595 600 605  
Gly Asn Met Val Ser Asp Leu Pro Gly Leu Lys Lys Ile Asp Thr Glu  
610 615 620  
Ala Pro Gly Leu Pro Gly Val Pro Val Thr Thr Asp Ala Met Pro Arg  
625 630 635 640  
Thr Asn Phe His Ser Ser Val Ala Phe Met Phe Arg Lys Phe Lys Ile  
645 650 655  
Leu Arg Pro Ala Pro Leu Pro Ala Ala Val Val Pro Ser Thr Pro Thr  
660 665 670

Ser Ala Pro Ala Pro Thr Gln Pro Ala Pro Thr Pro Thr Ser Gly Pro  
675 680 685

Ile Gly Leu Arg Ile Leu Ala Gln Gln Pro Leu Ser Val Thr Cys Phe  
690 695 700

Ser Leu Ala Leu Pro Ser Pro Pro Ala Val Ala Val Ala Ser Pro Ala  
705 710 715 720

Pro Ala Pro Ala Pro Ser Pro Ala Pro Ala Arg Ala Gln Ala Pro Ala  
725 730 735

Ser Ala Arg Asp Pro Ala Pro Ala Pro Ala Pro Val Ala Gly Pro Ala  
740 745 750

Pro Ala Ser Thr Ser Ala Pro Gly Asp Ser Leu Glu Gln His Phe Thr  
755 760 765

Gly Leu His Ala Ser Leu Cys Asp Ala Ile Ser Gly Ser Val Ala His  
770 775 780

Ser Pro Pro Glu Lys Leu Arg Glu Trp Leu Glu Thr Ala Gly Pro Trp  
785 790 795 800

Gly Gln Ala Ala Trp Gln Asp Cys Gln Gly Val Gln Gly Leu Leu Ala  
805 810 815

Lys Leu Leu Ser Gln Leu Gln Arg Phe Asp Arg Thr His Arg Cys Pro  
820 825 830

Phe Pro His Val Val Arg Ala Gly Ala Ile Phe Val Pro Ile His Leu  
835 840 845

Val Lys Glu Arg Leu Phe Pro Arg Leu Pro Pro Ala Ser Val Asp His  
850 855 860

Val Leu Gln Glu His Arg Val Glu Leu Arg Pro Thr Thr Leu Ser Glu  
865 870 875 880

Glu Arg Ala Leu Arg Glu Leu Ala Leu Pro Gly Cys Thr Ser Arg Met  
885 890 895

Leu Lys Leu Leu Ala Leu Arg Gln Leu Pro Asp Ile Tyr Pro Asp Leu

900	905	910
Leu Gly Leu Gln Trp Arg Asp Cys Val Arg Arg Gln Leu Gly Asp Phe		
915	920	925
Asp Thr Glu Ala Gly Ala Val Ser Ser Ser Glu Pro Thr Val Ala Arg		
930	935	940
Asp Glu Pro Glu Ser Leu Ala Leu Ala Gln Lys Ser Pro Ala Pro Lys		
945	950	955
Val Arg Lys Pro Gly Arg Lys Pro Pro Thr Pro Gly Pro Glu Lys Ala		
965	970	975
Glu Ala Ala Ala Gly Glu Glu Ser Cys Gly Ala Ser Pro Thr Pro Ala		
980	985	990
Thr Ser Ala Ser Pro Pro Gly Pro Thr Leu Lys Ala Arg Phe Arg Ser		
995	1000	1005
Leu Leu Glu Thr Ala Trp Leu Asn Gly Leu Ala Leu Pro Thr Trp Gly		
1010	1015	1020
His Lys Ser Ser Arg Pro Asp Gln Pro Ser Pro Cys Pro Gln Leu Leu		
1025	1030	1035
Asp Ser Gln Ser His His Leu		
1045		

&lt;210&gt; 3464

&lt;211&gt; 358

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3464

Met Gln Arg Ser Pro His Ala Ala Glu Thr Gly Val Pro Thr Gly Ser

1

5

10

15

Ala Lys Val Thr Thr Thr Gln Gln Arg Gln Ala Ser Cys Gly Gln Cys  
20 25 30  
Arg Gly His His His Ala Ala Glu Thr Gly Val Leu Trp Ala Val Gln  
35 40 45  
Arg Ser Pro Pro Arg Ser Arg Asp Arg Arg Pro Val Gly Asp Ala Glu  
50 55 60  
Val Thr Pro Arg Ser Arg Asp Arg Arg Pro Val Gly Asp Ala Glu Val  
65 70 75 80  
Thr Thr Thr Gln Gln Arg Arg Ala Ser Pro Gln Ala Val Gln Arg Ser  
85 90 95  
Pro Pro Arg Ser Arg Asp Arg Arg Pro His Gly Gln Cys Lys Gly His  
100 105 110  
His His Thr Ala Glu Ile Gly Val Leu Trp Ala Met Gln Arg Ser Pro  
115 120 125  
Pro Arg Ser Arg Asp Arg Arg Pro Val Gly Asp Ala Glu Val Thr Pro  
130 135 140  
Arg Ser Arg Asp Arg Arg Pro Val Gly Asp Ala Glu Val Thr Thr Thr  
145 150 155 160  
Gln Gln Arg Arg Ala Ser Pro Gln Ala Val Gln Arg Ser Pro Pro His  
165 170 175  
Ser Arg Asp Arg Arg Pro His Gly Gln Cys Arg Gly His His His Ala  
180 185 190  
Ala Glu Thr Gly Val Pro Thr Gly Ser Ala Glu Val Thr Thr Thr Gln  
195 200 205  
Gln Arg Gln Ala Ser Cys Gly Gln Cys Arg Gly His His His Ala Ala  
210 215 220  
Glu Thr Gly Val Leu Trp Ala Val Gln Arg Ser Pro Pro Arg Ser Arg  
225 230 235 240  
Asp Gly Arg Pro His Arg Gln Cys Arg Gly His His His Thr Ala Glu

245 250 255  
 Thr Gly Val Leu Trp Ala Val Gln Arg Ser Pro Pro Arg Ser Arg Asp  
 260 265 270  
 Arg Arg Pro Val Gly Ser Ala Glu Val Thr Thr Leu Ser Gln Thr Val  
 275 280 285  
 Leu Gly Leu Pro Trp Val Glu His Arg Met Lys Thr Met Cys Phe Glu  
 290 295 300  
 Pro Trp Lys Asp Asn Gln Pro Ser Gln Ser Gln Ser Leu Lys Gln Ala  
 305 310 315 320  
 Ala Pro Arg Ala Gln Leu Gln Glu Ala Ala Ser Ser Arg Gly Leu Gln  
 325 330 335  
 Gln Gly Gly Gly Arg Cys Val Pro Ser Val Ala Ser Trp Cys Pro Leu  
 340 345 350  
 Met Ser Arg Ser Val Arg  
 355

&lt;210&gt; 3465

&lt;211&gt; 336

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3465

Met Ser Arg Ser Val Leu Glu Ala Leu Thr Ser Ser Thr Ala Met Gln  
 1 5 10 15  
 Cys Val Pro Ser Asp Gly Cys Ala Met Leu Leu Arg Val Arg Ala Ser  
 20 25 30  
 Ile Thr Leu His Glu Arg Leu Arg Gly Leu Glu Ala Cys Ala Met Ser  
 35 40 45

Leu Asp Thr Gln Glu Thr Gln Cys Gln Ser Val Trp Val Ala Arg Ala  
 50 55 60  
 Ser His Arg Gln Gln Arg Gly Arg Gln Leu Gln Val His Phe Gly Cys  
 65 70 75 80  
 Phe Ala Val Ser Val Ala Gln His Leu Tyr Val Thr Leu Arg Thr Ile  
 85 90 95  
 Pro His Phe Cys Gly Val Gln Leu Asp Gln Arg His Leu Val Glu Ala  
 100 105 110  
 Gly Lys Leu Ser Tyr Trp Val Asp Arg Arg Arg Lys Ala Ile Leu Val  
 115 120 125  
 Gln Val Pro Arg Ala Ser Gly Ser Pro Asp Tyr Tyr Leu Arg Leu Cys  
 130 135 140  
 Leu Lys Arg Phe Thr Cys Glu Asp Ala Gly Ala Pro Val Arg Val Thr  
 145 150 155 160  
 Ala Asn Ser Val Pro Gln Ala Val Phe Leu Pro Tyr Ser Gln Glu Leu  
 165 170 175  
 Pro Cys Leu Cys Leu Glu Gly Trp Ser Ala Thr Pro Asp Ala Val Arg  
 180 185 190  
 Ile Gln Ile Cys Pro Phe Glu Asn Asp Thr Glu Ala Leu Glu Val Leu  
 195 200 205  
 Trp Asp Thr Val Tyr Tyr His Pro Glu Ser Gln Thr Leu Ser Trp Glu  
 210 215 220  
 Pro Ala Cys Pro Val Ser Gly His Val Ser Leu Cys Trp Arg Pro Gly  
 225 230 235 240  
 Pro Gly Ala Gly Cys Arg Lys Leu Gln Gln Ser Ser Gln Leu Val His  
 245 250 255  
 Arg Arg Val Gln Tyr Pro Leu Val Asp Thr Gln Pro Gln Leu Cys Leu  
 260 265 270  
 Lys Phe Ser Thr Ser Trp Gly Ser Trp Val Arg Cys Pro Phe Glu Gln

275	280	285
Arg Arg Phe Pro Thr Pro Pro Thr Ser Arg Cys Thr Cys Val Thr Gly		
290	295	300
Gly Ser His Ser Ser Leu Pro Ala Asn Ala His Ser Arg Pro Ala Arg		
305	310	315
Ser Leu Gln Pro Gln Val Thr Trp Gln Pro Pro Leu Leu Leu Pro Ser		
325	330	335

&lt;210&gt; 3466

&lt;211&gt; 295

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3466

Met Ala Val Met Ala Pro Arg Thr Leu Val Leu Leu Leu Ser Gly Ala		
1	5	10
Leu Ala Leu Thr Gln Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe		
20	25	30
Tyr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala		
35	40	45
Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala		
50	55	60
Ala Ser Gln Arg Met Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly		
65	70	75
Pro Glu Tyr Trp Asp Arg Asn Thr Arg Asn Val Lys Ala His Ser Gln		
85	90	95
Thr Asp Arg Arg Tyr Leu Glu Asn Gly Lys Glu Thr Leu Gln Arg Thr		
100	105	110

Asp Ala Pro Lys Thr His Met Thr His His Ala Val Ser Asp His Glu  
115 120 125  
Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe Tyr Pro Ala Glu Ile Thr  
130 135 140  
Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu  
145 150 155 160  
Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ser  
165 170 175  
Val Val Val Pro Ser Gly Gln Glu Gln Arg Tyr Thr Cys His Val Gln  
180 185 190  
His Glu Gly Leu Pro Lys Pro Leu Thr Leu Arg Trp Glu Pro Ser Ser  
195 200 205  
Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Phe  
210 215 220  
Gly Ala Val Ile Ala Gly Ala Val Val Ala Ala Val Met Trp Arg Arg  
225 230 235 240  
Lys Ser Ser Gly Gly Glu Gly Met Lys Gly Gly Ser Glu Ile Ser Cys  
245 250 255  
Leu Thr Glu Gly Ser Lys Thr Gln Val Glu Val Cys Pro Ala Ser Leu  
260 265 270  
Leu Gly Ser Thr Ile His Asn Tyr Glu Pro Thr Gln Pro Gly Pro Cys  
275 280 285  
Val Pro Ala Leu Thr Leu Leu  
290 295

&lt;210&gt; 3467

&lt;211&gt; 368

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3467

Met Glu Gly Leu Val Phe Leu Asn Ala Leu Ala Thr Arg Leu Leu Phe  
 1 5 10 15  
 Leu Leu His Ser Leu Val Gly Val Trp Arg Val Thr Glu Val Lys Lys  
 20 25 30  
 Glu Pro Arg Tyr Trp Leu Leu Ala Leu Leu Asn Leu Leu Leu Phe Leu  
 35 40 45  
 Glu Thr Ala Leu Thr Leu Lys Phe Lys Arg Gly Arg Gly Tyr Lys Trp  
 50 55 60  
 Phe Ser Pro Ala Ile Phe Leu Tyr Leu Ile Ser Ile Val Pro Ser Leu  
 65 70 75 80  
 Trp Leu Leu Glu Leu His His Glu Thr Gln Tyr Cys Ser Ile Gln Ala  
 85 90 95  
 Glu Gly Thr Ser Gln Asn Thr Ser Arg Lys Glu Asp Phe Asn Gln Thr  
 100 105 110  
 Leu Thr Ser Asn Glu Gln Thr Ser Arg Ala Asp Asp Leu Ile Glu Thr  
 115 120 125  
 Ala Lys Val Phe Val Asn Asn Leu Ser Thr Val Cys Glu Lys Val Trp  
 130 135 140  
 Thr Leu Gly Leu His Gln Thr Phe Leu Leu Met Leu Ile Ile Gly Arg  
 145 150 155 160  
 Trp Leu Leu Pro Ile Gly Gly Gly Ile Thr Arg Asp Gln Leu Ser Gln  
 165 170 175  
 Leu Leu Leu Met Phe Val Gly Thr Ala Ala Asp Ile Leu Glu Phe Thr  
 180 185 190  
 Ser Glu Thr Leu Glu Glu Gln Asn Val Arg Asn Ser Pro Ala Leu Val  
 195 200 205

Tyr Ala Ile Leu Val Ile Trp Thr Trp Ser Met Leu Gln Phe Pro Leu  
 210 215 220  
 Asp Leu Ala Val Gln Asn Val Val Cys Pro Val Ser Val Thr Glu Arg  
 225 230 235 240  
 Gly Phe Pro Ser Leu Phe Phe Cys Gln Tyr Ser Ala Asp Leu Trp Asn  
 245 250 255  
 Ile Gly Ile Ser Val Phe Ile Gln Asp Gly Pro Phe Leu Val Val Arg  
 260 265 270  
 Leu Ile Leu Met Thr Tyr Phe Lys Val Ile Asn Gln Met Leu Val Phe  
 275 280 285  
 Phe Ala Ala Lys Asn Phe Leu Val Val Val Leu Gln Leu Tyr Arg Leu  
 290 295 300  
 Val Val Leu Ala Leu Ala Val Arg Ala Ser Leu Arg Ser Gln Ser Glu  
 305 310 315 320  
 Gly Leu Lys Gly Glu His Gly Cys Arg Ala Gln Thr Ser Glu Ser Gly  
 325 330 335  
 Pro Ser Gln Arg Asp Trp Gln Asn Glu Ser Lys Glu Gly Leu Ala Ile  
 340 345 350  
 Pro Leu Arg Gly Ser Pro Val Thr Ser Asp Asp Ser His His Thr Pro  
 355 360 365

&lt;210&gt; 3468

&lt;211&gt; 200

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3468

Met Gly Val Pro Asn Phe Leu Ser Phe Phe Ser Phe Leu Phe Phe Phe

1	5	10	15
Phe Lys Ser Leu Arg Gln Gly Leu Ala Gln Leu Pro Arg Leu Glu Cys			
20	25	30	
Ser Gly Thr Ile Ser Ala His Cys Ser Leu Asn Leu Leu Gly Ser Ser			
35	40	45	
Asp Pro Pro Thr Leu Ala Ser Ser Ile Ser Gly Thr Ala Gly Thr His			
50	55	60	
His His Ala Gln Leu Ile Phe Phe Phe Phe Phe Leu Arg Gln Gly Leu			
65	70	75	80
Thr Leu Ser Pro Thr Leu Glu Cys Ser Gly Thr Ile Ser Ala His Cys			
85	90	95	
Asn Leu Cys Leu Leu Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Gln			
100	105	110	
Val Ala Gly Asn Thr Gly Val His His His Thr Arg Leu Ile Phe Val			
115	120	125	
Phe Leu Leu Glu Thr Arg Phe Cys His Val Gly Gln Thr Gly Leu Lys			
130	135	140	
Leu Leu Ile Ser Gly Asp Gln Pro Thr Leu Ala Ser Gln Ser Ala Gly			
145	150	155	160
Ile Thr Gly Met Ser Cys Arg Ala Gln Pro Cys Phe Pro Tyr His Leu			
165	170	175	
Ser Arg Ala Pro Cys Val Arg Gly Leu Gly Pro Leu Ser His His Lys			
180	185	190	
Leu Gln Arg Gly Ser Ala Ala Thr			
195	200		

&lt;210&gt; 3469

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3469

Met Ile Gln Leu Pro Pro Thr Arg Ser Leu Ser Gln His Leu Gly Ile  
1 5 10 15  
Gln Gly Glu Ile Trp Val Gly Thr Gln Pro Asn His Ile Thr Ala Pro  
20 25 30  
Glu Leu Asn Phe Ser Trp Asn Cys Ser Ser Tyr Glu Gly Glu Phe Ser  
35 40 45  
Ile Val Pro Thr Ser Gln Leu Ser Ser Gly His Asp Val Ser Asn Trp  
50 55 60  
His Gly Leu Gly Gln Ala Leu Cys Thr Ser Cys Asn Gly Val Leu Glu  
65 70 75 80  
Arg Ile His Leu His Phe Gln Leu Leu His Trp Gln Val Gly Val Ser  
85 90 95  
Pro Asp Ile Arg Lys Gly Leu Asn Ala Gly Gln Ser Lys Lys Asn Asp  
100 105 110  
Thr Cys Pro Phe Leu Leu Glu His Asp Gly Cys Glu Glu Asp Arg Arg  
115 120 125

&lt;210&gt; 3470

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3470

Met Val Glu Leu Thr Val Ala Ala Arg Gln Ala Tyr Lys Thr Met Leu

1	5	10	15
Glu Asn Val	Gln Gln Glu Leu Val	Gly Glu Pro Arg Pro	Gln Ala Pro
20	25	30	
Pro Ser Leu	Pro Met Gly Val Val	Ala Ala Thr Leu	Glu Val Val Gly
35	40	45	
Thr Arg Ala	Met Gly Val Ala Gly	Ile Met Thr Val	Asp Leu Glu Gly
50	55	60	
Met Asp Met	Asp Met Asp Val Pro	Glu Thr Ile Met	Ala Glu Thr Arg
65	70	75	80
Val Val Met	Thr Ala Thr Gln	Glu Glu Ile Thr	Glu Thr Ile Met Thr
85	90	95	
Thr Glu Met	Arg His Ala His	Asn Ile Asp Thr	Gln Gly Ile Ile Ser
100	105	110	
Asp Pro Gly	Ser Ser Phe Gln	Met Ala Val Phe	Ile Lys Val Phe Gly
115	120	125	
Ala Ala Leu	Lys His Leu Ile	Leu	
130	135		

&lt;210&gt; 3471

&lt;211&gt; 168

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3471

Met Gly Ile	Ser Arg Thr	Ala Pro Gln	Gly Thr Gly	Gly Ile Ile	Leu
1	5	10	15		
Gln Gly Pro	Leu Leu Pro	Met Lys Asp	Thr Arg Glu	Met Leu Leu	Arg
20	25	30			

Lys Leu Glu Leu Cys Ala Phe Asp His Leu Val Cys Pro Pro Ile Leu  
                   35                                  40                                  45  
 Pro Ser Glu Gly Leu Gly Glu Arg Arg Asn Ala Pro Ser Glu Gly Leu  
                   50                                  55                                  60  
 Gly Glu Arg Arg Asn Ala Arg Gly Arg Cys Ala Leu Gln Arg Leu Tyr  
                   65                                  70                                  75                                  80  
 Gln His Gln Lys Lys Ala Gly Arg Val Phe Leu Glu Glu Gly Gly Arg  
   85                                  90                                  95  
 Arg Pro Ala Val Ala Gly Arg Leu Ala Gly Gln Glu Arg Pro Ile Ser  
   100                                  105                                  110  
 Ala Val Leu Ser Ser Gly Leu Gln His Pro Thr Trp Arg Thr Pro Leu  
   115                                  120                                  125  
 Pro Leu Ser Ser Thr Val Ala Leu Leu Ser Trp Cys Pro Leu Asn Ala  
   130                                  135                                  140  
 Tyr Leu Pro Phe Val Pro Pro Asn Leu Ser Arg Pro Pro Gln Val Thr  
   145                                  150                                  155                                  160  
 His Phe Leu Ser Cys Ser Glu Leu  
   165

&lt;210&gt; 3472

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3472

Met Gly Trp Lys Lys Ile Gln Glu Ser Ser Ala Gln Ile Trp Trp Leu  
                   1                                  5                                  10                                  15  
 Lys Glu Glu Gln Trp Pro Gln Glu Val Val Glu Gln Glu Gly Pro Arg

20	25	30
Ile Glu Pro Arg Arg Thr Met Val Phe Lys Gly Pro Ala Lys Glu Thr		
35	40	45
Ser Arg Arg Lys Val Lys Ser Val Val Ser Gln Lys Ser Arg Glu Lys		
50	55	60
Val Ser Arg Asn Ser Gln Gln Cys Glu Ile Leu Leu Cys Lys Ser Ile		
65	70	75
Met Val Arg Ala Arg Lys Asp Pro Leu Asp Thr Thr Arg Trp Trp Ser		
85	90	95
Gly Ile Val Pro Arg Thr Ala Ser Met Val Cys Trp Ser Ser Gln Leu		
100	105	110
Pro Val Gly Leu Arg Ser Lys Gln Gly Arg Val Gln Arg Gly Arg Leu		
115	120	125
Glu Arg Val Ala Ala Gly Gly Gly Cys Cys Phe Leu Gly Ser His Pro		
130	135	140
His Ala Pro Thr Gly Cys His Ser Ala Trp Phe Pro Cys Leu Ala Pro		
145	150	155
Leu Leu Pro Leu Pro Ser Ser Gly Leu Gln Asp Gly Leu Asp Ser Gly		
165	170	175
Leu Ser Gly Tyr Ile Asp Leu Asn Lys Ser Pro Lys Phe		
180	185	

&lt;210&gt; 3473

&lt;211&gt; 200

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3473

Met	Pro	Arg	Gly	Leu	Ala	Asp	Lys	Gln	Gly	Pro	Glu	Glu	Cys	Asp	Ala
1				5					10					15	
Val	Ala	Leu	Leu	Ser	Leu	Ile	Asn	Ser	Cys	Asp	His	Phe	Val	Val	Asp
				20				25					30		
Arg	Lys	Lys	Val	Thr	Glu	Val	Ile	Lys	Cys	Arg	Asn	Glu	Ile	Met	His
				35				40					45		
Ser	Ser	Glu	Met	Lys	Val	Ser	Ser	Thr	Trp	Leu	Arg	Asp	Phe	Gln	Met
				50				55				60			
Lys	Ile	Gln	Asn	Phe	Leu	Asn	Glu	Phe	Lys	Asn	Ile	Pro	Glu	Ile	Val
65					70					75				80	
Ala	Val	Tyr	Ser	Arg	Ile	Glu	Gln	Leu	Leu	Thr	Ser	Asp	Trp	Ala	Val
					85					90				95	
His	Ile	Pro	Glu	Glu	Asp	Gln	Arg	Asp	Gly	Cys	Glu	Cys	Glu	Met	Gly
					100				105					110	
Thr	Tyr	Leu	Ser	Glu	Ser	Gln	Val	Asn	Glu	Ile	Glu	Met	Gln	Leu	Leu
				115				120					125		
Lys	Glu	Lys	Leu	Gln	Glu	Ile	Tyr	Leu	Gln	Ala	Glu	Glu	Gln	Glu	Val
				130				135					140		
Leu	Pro	Glu	Glu	Leu	Ser	Asn	Arg	Leu	Glu	Val	Val	Lys	Glu	Phe	Leu
145					150					155				160	
Arg	Asn	Asn	Glu	Asp	Leu	Arg	Asn	Gly	Leu	Thr	Glu	Asp	Met	Gln	Lys
					165					170				175	
Leu	Asp	Ser	Leu	Cys	Leu	His	Gln	Lys	Leu	Asp	Ser	Gln	Glu	Pro	Gly
					180					185				190	
Arg	Gln	Thr	Pro	Asp	Arg	Lys	Ala								
					195					200					

&lt;210&gt; 3474

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3474

Met Asp Gly Arg Ala Ala Gly Gly Arg Gly Gly Gly Phe Leu Arg Arg

1 5 10 15

Glu Val Gly Ser Leu Gln Pro Pro Ser His Cys Pro His Pro Thr Val

20 25 30

Trp Leu Leu Pro Gly Leu Ser Phe Pro Ile Cys Glu Thr Gly Glu Met

35 40 45

Gly Ser Leu Ser Gly Pro Arg Ser Ile Leu Met Gly Val Arg Ala Trp

50 55 60

Gln Gly Leu Cys Arg Leu Gly Ser Glu Leu Gly Arg Pro Gly Cys Val

65 70 75 80

Ala Thr Gly Val Ser Ala Pro Thr Ser Pro Phe Glu Thr Cys Pro Ala

85 90 95

Phe Leu Phe Ala Ala Ala Thr Ala Val Arg Phe Ala Thr Arg Ser Cys

100 105 110

Gly Cys Pro Pro Arg Gln Gly Asp

115 120

&lt;210&gt; 3475

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3475

Met Glu Pro Leu Asn Ser Ala Val Phe Asn Leu Arg Glu Asp Arg Val  
1 5 10 15  
Gly Gln Phe Ser Trp Gln Gln Leu Arg Glu Gly Glu Ser Arg Glu Gln  
20 25 30  
Gly Ser Asp Lys Val Cys Leu Ala Gly Ser Lys His Phe Met Glu Trp  
35 40 45  
Arg Pro Leu Ala Val Arg Asp Leu Arg Lys Ile Cys Gln Gly Leu Leu  
50 55 60  
His Ser Glu Gly Leu Gln Phe Gly Trp Leu Gly Thr Leu Leu Pro Cys  
65 70 75 80  
Thr Asp Gly Ala Pro Ile Ser Met Thr Arg Val Leu Val Gln Thr Gln  
85 90 95  
Phe Ile Val Phe Thr Asn Ser Met His Ser Asn Gln Thr Glu Ile Glu  
100 105 110  
Ile Gln Tyr Asn Ile Lys Gly Asp Leu Gly Gln Ala Gln Trp Leu Ile  
115 120 125  
Leu Val Ile Pro Ala Leu Trp Asp Ala Glu Leu Gly Gly Ser Leu Glu  
130 135 140  
Ala Arg Ser Leu Gly Pro Ala Trp Ala Arg Lys  
145 150 155

&lt;210&gt; 3476

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3476

Met Ile Ser Val His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser

1	5	10	15
Pro	Ala	Leu	Ala
5	Ser	Gln	Ile
10	Ala	Gly	Ile
15	Thr	Gly	Met
20	His	His	His
25	Ala	Arg	Gln
30	Ile	Phe	Ile
35	Phe	Leu	Ile
40	Glu	Thr	Gly
45	Phe	His	His
50	Val	Asp	Gln
55	Ala	Gly	Leu
60	Lys	Leu	Leu
65	Ala	Ser	Ser
70	Tyr	Leu	Pro
75	Ala	Leu	Ala
80	Trp	Pro	Ala
85	Pro	Leu	Asn
90	Thr	Leu	Lys
95	Met	Ser	Gln
100	Cys	Ile	Leu
105	Val	Ser	Ile
110	Phe	Tyr	Ile
	Gly	Lys	Phe
	Val	Val	Asn
	Leu	Ile	Leu
	Ile	Pro	Val
	His	Leu	Val

&lt;210&gt; 3477

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3477

Met	Leu	Met	Val	Leu	Phe	Lys	Tyr	Trp	Phe	Val	Ser	Phe	Gly	Asp	Val
1	5	10	15												
20	25	30													
35	40	45													

Cys Leu Phe Val Leu Arg Gln Ser Phe Ala Leu Val Ala Gln Ala Gly  
 50 55 60  
 Val Arg Trp Cys Asp Leu Gly Ser Ala Gln Pro Leu Pro Pro Gly Phe  
 65 70 75 80  
 Lys Leu Val Ser Cys Leu Gly Leu Pro Ser Ser Trp Asp Tyr Arg His  
 85 90 95  
 Ala Pro Pro Arg Leu Ala Asn Phe Val Phe Leu Val Glu Thr Gly Phe  
 100 105 110  
 Leu His Val Gly Gln Ala Gly Leu Glu Leu Pro Thr  
 115 120

&lt;210&gt; 3478

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3478

Met Trp Trp Pro Leu Ala Gly Met Thr Asp Ser Glu Val Ile Thr His  
 1 5 10 15  
 Ser His Cys Asn Cys His Ser Val Ala Ser Phe Ser Gln Gly Gln Gly  
 20 25 30  
 Pro Gly Glu Arg Thr Gly Trp Gln Pro Ala Ala Gln Leu Glu Met Arg  
 35 40 45  
 Ser Leu Ser Phe Ser Ser Tyr Leu Met Glu Ala Ser Gln Met Gln Asp  
 50 55 60  
 Gly Ser Ser Arg Pro Ser Ile Thr Ser Ser Gln Cys Pro Lys Ala Arg  
 65 70 75 80  
 Arg Glu Ala Val Val Phe Lys Ser Arg Lys Thr Phe Leu Asn Leu Ala

85 90 95  
 Arg Ile Ala Ser Gln Thr Leu Ser  
 100

<210> 3479

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3479

Met Glu Ala Gln Ser Cys Glu Gln Glu Thr Thr Ala Arg Arg Asn Gly  
 1 5 10 15  
 Gly Ala Arg Ser Leu Lys Gly Asn Ala Ala Gly Gly Val Val Lys Asp  
 20 25 30  
 Asn Ile Cys Phe Gly Ala Thr Ser Gly Ala Val Thr Lys Lys Pro Ser  
 35 40 45  
 Thr Leu Arg Lys Lys Glu Lys Phe Gly Tyr Arg Glu Thr Pro Cys Ser  
 50 55 60  
 Lys Cys Cys Asp Ser Lys Thr Ala Gly Phe Ala Pro Leu Ala Lys Glu  
 65 70 75 80  
 Pro Thr Glu Thr Pro Gly Ala Ala Thr Ala Lys Pro Ala Leu Glu Gly  
 85 90 95  
 Leu Gly Trp Arg Lys Pro Arg Thr Glu Thr Arg Lys Leu Cys Thr Ala  
 100 105 110  
 Arg Leu Ala Val Asp Thr Asn Arg Lys Val Ser Arg Leu Leu Ser Gly  
 115 120 125  
 Arg Lys Arg Gly Ser Lys Pro Ala Thr Gln Trp Arg Glu Pro Arg Ser  
 130 135 140

His

145

&lt;210&gt; 3480

&lt;211&gt; 240

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3480

Met Gly Leu His Leu Trp Ala Ala Gly Pro Gly Thr His Pro Ala Gly  
1 5 10 15  
Ile Ser Asp Leu Leu Ala Glu Val Ser Ala Glu Val Asp Gly Pro Val  
20 25 30  
Pro Gly Tyr Leu Ser Ser Pro Gln Ser Ile Thr Asp Thr Cys Leu Tyr  
35 40 45  
Ile Phe Thr Ser Gly Thr Thr Gly Leu Pro Lys Ala Ala Arg Ile Ser  
50 55 60  
His Leu Lys Ile Leu Gln Cys Gln Gly Phe Tyr Gln Leu Cys Gly Val  
65 70 75 80  
His Gln Glu Asp Val Ile Tyr Leu Ala Leu Pro Leu Tyr His Met Ser  
85 90 95  
Gly Ser Leu Leu Gly Ile Val Gly Cys Met Gly Ile Gly Ala Thr Val  
100 105 110  
Val Leu Lys Ser Lys Phe Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln  
115 120 125  
Gln His Arg Val Thr Val Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr  
130 135 140  
Leu Val Asn Gln Pro Pro Ser Lys Ala Glu Arg Gly His Lys Val Arg

145                      150                      155                      160  
 Leu Ala Val Gly Ser Gly Leu Arg Pro Asp Thr Trp Glu Arg Phe Val  
                                  165                      170                      175  
 Arg Arg Phe Gly Pro Leu Gln Val Leu Glu Thr Tyr Gly Leu Thr Glu  
                                  180                      185                      190  
 Gly Asn Val Ala Thr Ile Asn Tyr Thr Gly Gln Arg Gly Ala Val Gly  
                                  195                      200                      205  
 Arg Ala Ser Trp Leu Tyr Lys Glu Ser Gln Phe Gly Thr Pro Arg Gly  
                                  210                      215                      220  
 Thr Val Trp Pro His Leu Gln Val Ser Gln Gly Cys Trp Trp Pro Arg  
 225                      230                      235                      240

<210> 3481

<211> 164

<212> PRT

<213> Homo sapiens

<400> 3481

Met Leu Leu Thr Thr Leu Thr His Phe Phe Phe Phe Phe Phe Phe Leu  
                                  1                      5                      10                      15  
 Arg Gln Ser Leu Thr Leu Ser Ala Trp Leu Glu Cys Ser Gly Thr Ile  
                                  20                      25                      30  
 Ser Ala His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asn Ser Pro Ala  
                                  35                      40                      45  
 Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Met Cys His His Ala Arg  
                                  50                      55                      60  
 Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe His His Val Gly Glu  
                                  65                      70                      75                      80

出証特 2 0 0 4 - 3 0 5 9 6 6 0

65	70	75	80
Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Leu Pro Ala			
	85	90	95
Leu Ala Ser Gln Ser Val Gly Ile Thr Gly Leu Ser His Pro Ala Arg			
	100	105	110
Pro Asn Ala Ser Ile Leu Phe Leu Asp Ala Phe His Ser Lys Trp			
	115	120	125

&lt;210&gt; 3483

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3483

Met Ser His Val Ile Trp Thr Leu Lys Met Glu Cys Ser Glu Thr His			
1	5	10	15
Val Gln Gly Ser Cys Ala Lys Leu Met Ser Arg Thr Gly Leu Leu Met			
	20	25	30
Lys Leu Leu Ser Glu Gln Gln Glu Ala Lys Ala Leu Asn Val Glu Trp			
	35	40	45
Asp Thr Asp Gln Gln Lys Thr Asn Tyr Ile Asn Glu Asn Met Glu Gln			
	50	55	60
Asn Glu Gln Lys Glu Gln Lys Ser Ser Glu Leu Met Lys Glu Val Pro			
	65	70	75
Gly Tyr Asp Tyr Lys Asn Lys Leu Ile Phe Ala Ile Ser Val Thr Val			
	85	90	95
Ile Leu Ile Ile Leu Ile Ile Ile Phe Cys Phe Ile Glu Val Lys Thr			
	100	105	110

Ile Ile Asn Ser Gly Phe Gln Asn Thr Ile Leu Cys Leu Cys Gly Phe  
 115 120 125  
 Arg Ile His Lys Leu Lys Thr Asn Val Thr Phe Pro Leu Asp Ile Leu  
 130 135 140  
 Leu Leu Ser Phe Lys Ala Glu Val Cys Phe Val Leu Leu Leu Gln Cys  
 145 150 155 160  
 Ile Phe Gln Asp Cys  
 165

<210> 3484

<211> 405

<212> PRT

<213> Homo sapiens

<400> 3484

Met Ser Ser Ser Val Lys Thr Pro Ala Leu Glu Glu Leu Val Pro Gly  
 1 5 10 15  
 Ser Glu Glu Lys Pro Lys Gly Arg Ser Pro Leu Ser Trp Gly Ser Leu  
 20 25 30  
 Phe Gly His Arg Ser Glu Lys Ile Val Phe Ala Lys Ser Asp Gly Gly  
 35 40 45  
 Thr Asp Glu Asn Val Leu Thr Val Thr Ile Thr Glu Thr Thr Val Ile  
 50 55 60  
 Glu Ser Asp Leu Gly Val Trp Ser Ser Arg Ala Leu Leu Tyr Leu Thr  
 65 70 75 80  
 Leu Trp Phe Phe Phe Ser Phe Cys Thr Leu Phe Leu Asn Lys Tyr Ile  
 85 90 95  
 Leu Ser Leu Leu Gly Gly Glu Pro Ser Met Leu Gly Ala Val Gln Met

100	105	110
Leu Ser Thr Thr Val Ile Gly Cys Val Lys Thr Leu Val Pro Cys Cys		
115	120	125
Leu Tyr Gln His Lys Ala Arg Leu Ser Tyr Pro Pro Asn Phe Leu Met		
130	135	140
Thr Met Leu Phe Val Gly Leu Met Arg Phe Ala Thr Val Val Leu Gly		
145	150	155
Leu Val Ser Leu Lys Asn Val Ala Val Ser Phe Ala Glu Thr Val Lys		
165	170	175
Ser Ser Ala Pro Ile Phe Thr Val Ile Met Ser Arg Met Ile Leu Gly		
180	185	190
Glu Tyr Thr Gly Leu Leu Val Asn Leu Ser Leu Ile Pro Val Met Gly		
195	200	205
Gly Leu Ala Leu Cys Thr Ala Thr Glu Ile Ser Phe Asn Val Leu Gly		
210	215	220
Phe Ser Ala Ala Leu Ser Thr Asn Ile Met Asp Cys Leu Gln Asn Val		
225	230	235
Phe Ser Lys Lys Leu Leu Ser Gly Asp Lys Tyr Arg Phe Ser Ala Pro		
245	250	255
Glu Leu Gln Phe Tyr Thr Ser Ala Ala Ala Val Ala Met Leu Val Pro		
260	265	270
Ala Arg Val Phe Phe Thr Asp Val Pro Val Ile Gly Arg Ser Gly Lys		
275	280	285
Ser Phe Ser Tyr Asn Gln Asp Val Val Leu Leu Leu Leu Thr Asp Gly		
290	295	300
Val Leu Phe His Leu Gln Ser Ile Thr Ala Tyr Ala Leu Met Gly Lys		
305	310	315
Ile Ser Pro Val Thr Phe Ser Val Ala Ser Thr Val Lys His Ala Leu		
325	330	335

Ser Ile Trp Leu Ser Val Ile Val Phe Gly Asn Lys Ile Thr Ser Leu  
 340 345 350  
 Ser Ala Val Gly Thr Ala Leu Val Thr Val Gly Val Leu Leu Tyr Asn  
 355 360 365  
 Lys Ala Arg Gln His Gln Gln Glu Ala Leu Gln Ser Leu Ala Ala Ala  
 370 375 380  
 Thr Gly Arg Ala Pro Asp Asp Thr Val Glu Pro Leu Leu Pro Arg Asp  
 385 390 395 400  
 Pro Arg Gln His Pro  
 405

<210> 3485

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3485

Met Lys Ser Val Ala Gln Leu Val Tyr Phe Phe Gly Leu Leu Leu Leu  
 1 5 10 15  
 Asn Phe Val Ser Pro Lys Ser Glu Tyr Glu Ser Phe Cys Val Leu Ser  
 20 25 30  
 Leu Leu Leu Phe Phe Arg Glu Val Lys Val Val Gly Val Gln Pro Ile  
 35 40 45  
 Phe Val Tyr Phe Phe Cys Ser Ser Tyr Ile Tyr Tyr Tyr Trp Trp Phe  
 50 55 60  
 Leu Ser Gly Asn Phe Ser Phe Thr Leu Thr Leu Ala Leu Pro Pro Ser  
 65 70 75 80  
 Ala Phe Phe Ser Trp Leu Gln Leu Ser Thr Ile Ile Cys Gly Phe Pro

	85		90		95
Glu Gly Glu Pro Trp Trp Ser Gly Gly Gly Gly Arg Pro His Ser Lys					
	100		105		110
Ser Gly Val Val Gly Val Pro Asp Arg Val Leu Ile Gln Glu					
	115		120		125

&lt;210&gt; 3486

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3486

Met Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala Leu Phe Ser			
1	5	10	15
Val Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Glu Leu Phe Pro			
20	25	30	
Val Leu Phe Pro Met Leu Phe Pro Ala Leu Leu Pro Ala Leu Phe His			
35	40	45	
Met Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala Leu Phe Ser			
50	55	60	
Ala Pro Phe Pro Met Arg Ser Leu His Cys Ser Pro Arg Cys Ser Pro			
65	70	75	80
Cys Cys Ser Pro Arg Cys Ser Pro Cys Cys Ser Leu His Cys Ser Pro			
85	90	95	
Cys Cys Ser Leu Gln Cys Ser Leu His Cys Ser Pro His Cys Ser Leu			
100	105	110	
His Cys Ser Pro Cys Cys Phe Leu His Tyr Ser Pro Cys Cys Ser Leu			
115	120	125	

His Phe Ser Leu Cys Arg Ser Pro Cys Ile Pro Cys Thr Val Pro Cys  
 130 135 140  
 Thr Val Pro His Ala Val Pro Cys Asn Ala Pro Cys Thr Val Pro Arg  
 145 150 155 160  
 Thr Ala Pro Cys Thr Ile Pro His Ala Val Pro Cys Thr Phe Leu Cys  
 165 170 175  
 Ala Val Pro His Ala Phe Pro Ala Leu Phe Pro Ala Leu Phe Pro Met  
 180 185 190  
 Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala Pro Phe Pro Met  
 195 200 205  
 Leu Phe Pro Ala Gly Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala  
 210 215 220  
 Pro Phe Pro Met Leu Phe Pro Ala Gly Phe Pro Ala Leu Phe Pro Met  
 225 230 235 240  
 Leu Phe Pro Ala His Phe Met Pro Gln Thr Phe Pro Phe Ser His Gln  
 245 250 255  
 His Thr Gly Ser Ser Phe Lys Ser Phe Cys Ser Val Ser Asn His Ser  
 260 265 270  
 Ser Ala Gly Thr Gly Trp Gly Gln Asp Gly Val Arg Pro Cys Arg Pro  
 275 280 285  
 Trp Pro Ser Arg Ser Val Pro Leu Arg Arg Leu Pro Gln Arg His Gly  
 290 295 300  
 Arg Leu Leu Lys Ala Thr Glu Arg Ser Thr Cys Trp Thr Pro Thr Thr  
 305 310 315 320  
 Arg Ala Thr Pro Ser Cys Gly Cys Pro  
 325

&lt;210&gt; 3487

&lt;211&gt; 163

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3487

Met Ile Glu Ile Leu Asn Lys Ser Lys Asn Cys Glu Gly Phe Ser Glu

1 5 10 15

Arg Arg Thr Gly Arg Gly Ile Trp Thr Trp Val Cys Met His Arg Pro

20 25 30

Gly Cys Ser Arg Val Ala Asp Gln Gln His Leu Glu Asp Phe Thr Glu

35 40 45

Cys Phe Cys His Leu His Pro Ser Trp Pro Arg Pro Ala Leu Phe Pro

50 55 60

Leu Leu Leu Gln Leu Ile Phe Pro Asp Leu Val Glu Gly Leu Val Leu

65 70 75 80

Val Asn Ile Asp Pro Asn Gly Lys Gly Trp Ile Asp Trp Ala Ala Thr

85 90 95

Lys Leu Ser Gly Leu Thr Ser Thr Leu Pro Asp Thr Val Leu Ser His

100 105 110

Leu Phe Ser Gln Glu Glu Leu Val Asn Asn Thr Glu Leu Val Gln Ser

115 120 125

Tyr Arg Gln Gln Ile Gly Asn Val Val Asn Gln Ala Asn Leu Gln Leu

130 135 140

Phe Trp Asn Met Tyr Asn Ser His Phe Pro Gly Ala Leu Trp Ala Gln

145 150 155 160

Leu Val Leu

<210> 3488

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3488

Met Asn Gly Arg Leu Ser Lys Glu Asp Val Tyr Ala Ala Ser Lys His

1 5 10 15

Glu Lys Ser Ser Ser Ser Leu Phe Ile Arg Glu Met Gln Ile Lys Thr

20 25 30

Ala Met Arg Tyr His Leu Met Pro Val Arg Met Val Val Ile Lys Lys

35 40 45

Ser Gly Asn Asn Arg Cys Trp Arg Gly Cys Gly Glu Ile Gly Thr Leu

50 55 60

Leu His Cys Trp Trp Glu Gly Lys Leu Val Gln Pro Leu Trp Lys Thr

65 70 75 80

Val Trp Gln Phe Thr Lys Asp Leu Val Leu Glu Ile Pro Phe Asp Pro

85 90 95

Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Asp Tyr Lys

100 105

<210> 3489

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3489

Met Glu Lys Asn Ile Ser Leu Tyr Glu Tyr Thr Thr Phe Cys Leu Ser

1	5	10	15
Ile Tyr Pro Leu Ile Gly Cys Phe Tyr Phe Phe Leu Ala Ile Met Asn			
20	25	30	
Asn Ile Ala Val Asn Ile Cys Val Gln Gly Phe Ser Gly His Lys Phe			
35	40	45	
Leu Phe Phe Leu Gly Ile Tyr Leu Gly Val Glu Leu Leu Gly His Ile			
50	55	60	
Val Ile Leu Phe Asn Phe Leu Lys Asn Phe Pro Thr Val Leu His Gly			
65	70	75	80
Gly Cys Ala Ile Val Tyr Ser Tyr Gln Gln Cys Met Lys Leu Gln Ile			
85	90	95	
Ser Pro His Pro Glu Asn Pro Phe Ile Ile Phe Cys Phe Ser Phe			
100	105	110	

&lt;210&gt; 3490

&lt;211&gt; 199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3490

Met Val Ser Arg Pro Pro Arg Thr Pro Leu Ser Pro Ser Ser Trp Thr			
1	5	10	15
Pro Ala Met Gly Leu Arg Ala Ser Arg Asn Cys Ser Arg Thr Glu Asn			
20	25	30	
Ala Val Cys Gly Cys Ser Pro Gly His Phe Cys Ile Val Gln Asp Gly			
35	40	45	
Asp His Cys Ala Ala Cys Arg Ala Tyr Ala Thr Ser Ser Pro Gly Gln			
50	55	60	

Arg Val Gln Lys Gly Gly Thr Glu Ser Gln Asp Thr Leu Cys Gln Asn  
 65 70 75 80  
 Cys Pro Pro Gly Thr Phe Ser Pro Asn Gly Thr Leu Glu Glu Cys Gln  
 85 90 95  
 His Gln Thr Lys Cys Ser Trp Leu Val Thr Lys Ala Gly Ala Gly Thr  
 100 105 110  
 Ser Ser Ser His Trp Val Trp Trp Phe Leu Ser Gly Ser Leu Val Ile  
 115 120 125  
 Val Ile Val Cys Ser Thr Val Gly Leu Ile Ile Cys Val Lys Arg Arg  
 130 135 140  
 Lys Pro Arg Gly Asp Val Val Lys Val Ile Val Ser Val Gln Arg Lys  
 145 150 155 160  
 Arg Gln Glu Ala Glu Gly Glu Ala Thr Val Ile Glu Ala Leu Gln Ala  
 165 170 175  
 Pro Pro Asp Val Thr Thr Val Ala Val Glu Glu Thr Ile Pro Ser Phe  
 180 185 190  
 Thr Gly Arg Ser Pro Asn His  
 195

&lt;210&gt; 3491

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3491

Met Arg Lys Glu Lys Gln Ser Lys Ser Leu Leu Tyr Leu Leu Lys Ile  
 1 5 10 15  
 Ser Ser Leu Phe Ser Ser Thr Leu Phe His Gln His Leu Pro Ala Gln

	20		25		30
Asn Phe His Asn Asp Pro Ile Leu Lys Pro Asn Ser Val Ser Arg Leu					
	35		40		45
Leu Thr Ser Thr Ile Ala Arg Thr His Glu Asn Leu Leu Ile Gln Ala					
	50		55		60
His Ala Met Ala Gln Ala His Ala Glu Gln Ala Pro Leu Thr Pro Leu					
	65		70		75
					80
Leu Leu Pro Ser Ala Ser Thr Ala Leu Leu Asn Arg His Val Asn Thr					
		85		90	
					95
Gly Pro Phe Met His Arg Ser Lys Gly Ser Leu Arg Pro Lys Ala Leu					
	100		105		110
Cys Thr Thr Leu Cys Asp Ser Leu					
	115		120		

&lt;210&gt; 3492

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3492

Met Val Ser Ala Ala Leu Ile Ser Gln Ser Leu Pro Arg Ser Pro His			
1	5	10	15
Ser Arg Ser Pro Pro Leu Ala Arg Ser Arg Arg Leu Pro Thr Pro Arg			
	20	25	30
Ser Arg Pro Leu Arg Pro Ser Phe Leu Pro His Pro Ser Pro Arg Pro			
	35	40	45
Arg Asn Trp Pro Gly Pro Ser Lys Cys Arg Pro Arg Ser Arg Leu Gln			
	50	55	60

Asn Phe Leu Lys Leu Ser Asn Ser Lys His Pro Trp Pro Ala Ser Ser  
 65 70 75 80  
 Lys Leu Pro Leu Leu Pro Ser Arg Leu Leu His Arg Leu Trp Arg Ser  
 85 90 95  
 Arg Arg Arg Arg Arg Pro Gly Ser Arg Cys Arg  
 100 105

<210> 3493

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3493

Met His Leu Leu Leu Leu Ser Ser Ser Tyr Leu Asn Leu Leu Gln Arg  
 1 5 10 15  
 Met Leu Trp Arg Leu Pro Trp Leu Ser His Val Ile His Lys Glu His  
 20 25 30  
 Ala Thr Thr Ile Gln Phe Leu Gln Pro Arg Gly Arg Glu Gln Gln Tyr  
 35 40 45  
 Leu Cys Arg Arg Arg His Ser Glu Leu Pro Ser Ala Ser Arg Asn Gln  
 50 55 60  
 Ile Ser Glu Arg Arg Leu Ser Ala Tyr Leu Arg Thr Ile Ser Gly Val  
 65 70 75 80  
 Thr Val Cys Ser Asp Gly Leu Ser Thr Ser Val Trp Ser Cys Leu Leu  
 85 90 95  
 Phe Arg Arg Asp Leu Asp Pro Ala Trp Met Met Glu Gly Lys Gly Leu  
 100 105 110  
 Ala Gln Gly Glu Gly

115

&lt;210&gt; 3494

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3494

Met	Cys	Val	Cys	Cys	Phe	Ile	Phe	Leu	Met	Leu	Cys	Leu	Gly	Arg	Glu
1				5					10					15	
Cys	Ser	Tyr	Ile	Tyr	Val	Tyr	Ile	Leu	Tyr	Ser	Pro	Ile	Trp	Glu	Ser
			20					25					30		
Arg	Ser	Glu	Val	Ile	Ala	Ser	Ser	Asp	Cys	Phe	Ser	Ser	Glu	Val	Gly
			35					40					45		
Tyr	His	Trp	Phe	Thr	Cys	Leu	Tyr	Leu	Asn	Val	Leu	Pro	Ser	Val	Glu
	50					55					60				
Ser	Pro	Ala	Cys	Gly	Glu	Glu	Ser	Leu	Leu	Val	Met	Phe	Leu	Phe	Ser
	65					70					75			80	
Val	Phe	Met	Gly	Glu	Phe	Ile	Gln	Met	Phe	Tyr	Leu	Phe	Gln	Ser	Thr
				85					90					95	
Leu	Asp	Cys	Ala	Glu	Met	Ser	Ser	Ser	Val	Ala	Gln	Glu	Lys	Ala	
				100					105					110	

&lt;210&gt; 3495

&lt;211&gt; 168

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3495

Met Arg Leu Pro Ala Arg Leu Pro Ser Thr Ser Thr Ser Gly Ser Thr  
 1 5 10 15  
 Ser His Cys Arg Thr Gly Phe Trp Thr Leu Gly Val Pro Leu Pro Cys  
 20 25 30  
 Trp Tyr Ser Leu Ser Ser Gly Phe His Ser Thr Ser Pro Val Leu Gly  
 35 40 45  
 Thr Thr Ser Thr Trp Pro Thr Thr Ser Ser Arg Pro Phe Ser Cys Ser  
 50 55 60  
 Arg Tyr Cys Pro Arg Ala Pro Thr Leu Ser Cys His Pro His Ser Leu  
 65 70 75 80  
 His Thr Trp Gln Glu Gly Asp Ala Lys Pro Cys Val Leu Thr Gln Ala  
 85 90 95  
 Arg Ser Cys Leu Leu Leu Gly Gly Glu Gly Cys Asp Arg Ala Ala Cys  
 100 105 110  
 Pro Gly Pro Gly Ala Arg Gly Arg Arg Ser Cys Arg Trp Pro Gly Gly  
 115 120 125  
 Met Glu Asn Met Pro Gln Glu Arg Ala Phe Asp Leu Ser Leu Ser Leu  
 130 135 140  
 Ala Cys Gln Trp Gly Lys Gln Arg Gly Val Gln Val Glu Gly Pro Lys  
 145 150 155 160  
 Asp Lys Ala Val Leu Gly Lys Pro  
 165

&lt;210&gt; 3496

&lt;211&gt; 144

&lt;212&gt; PRT

<213> Homo sapiens

<400> 3496

Met Asp Ser Ser Tyr Leu Asp Asn Gln Gly Ile Ala Pro Ser Lys Lys  
1 5 10 15  
Pro Met Pro Ser Tyr Lys Cys Gln Ser His Trp Ala Asn Gln Gln Thr  
20 25 30  
Leu Ser Gln Arg Ala Pro Leu Gly Phe Thr Gly Gln Trp Thr Asn Gln  
35 40 45  
Arg Arg Phe Gln Ser Ala Ser His Cys Gly Thr Ala Arg His Ser Leu  
50 55 60  
Cys Pro Ala Arg Ser Gly Thr Phe Leu Asp Pro Val Ser Ser Ile Ile  
65 70 75 80  
Leu Asp Cys Gln Leu Pro Glu Val Arg Lys Leu Ile Phe Tyr Phe Phe  
85 90 95  
Ser Leu Arg Leu Leu Asn Leu Phe Gln Leu His Leu Ser Thr Glu Leu  
100 105 110  
Ser Ser Tyr Gln Val Leu Arg His Ile Asn Asp Ala Asn Leu Val Pro  
115 120 125  
Phe Leu Val Trp Pro Asn Ser Lys Val Glu Glu Leu Gly Asn Lys Ser  
130 135 140

<210> 3497

<211> 329

<212> PRT

<213> Homo sapiens

<400> 3497

Met Lys Leu Ser Val Asn Glu Ala Gln Leu Gly Phe Tyr Leu Gly Ser  
 1 5 10 15  
 Leu Ser His Leu Ser Ala Cys Pro Gly Ile Asp Pro Arg Ser Ser Glu  
 20 25 30  
 Asp Gln Pro Glu Ser Leu Lys Thr Gly Gln Met Met Asp Glu Ser Asp  
 35 40 45  
 Glu Asp Phe Lys Glu Leu Cys Ala Ser Phe Phe Gln Arg Val Lys Lys  
 50 55 60  
 His Gly Ile Lys Glu Val Ser Gly Glu Arg Lys Thr Gln Lys Ala Ala  
 65 70 75 80  
 Ser Asn Gly Thr Gln Ile Arg Ser Lys Leu Lys Arg Thr Lys Gln Thr  
 85 90 95  
 Ala Thr Lys Thr Lys Thr Leu Gln Gly Pro Ala Glu Lys Lys Pro Pro  
 100 105 110  
 Ser Gly Ser Gln Ala Pro Arg Thr Lys Lys Gln Arg Val Thr Lys Trp  
 115 120 125  
 Gln Ala Ser Glu Pro Ala His Ser Val Asn Gly Glu Gly Gly Val Leu  
 130 135 140  
 Ala Ser Ala Pro Asp Pro Pro Val Leu Arg Glu Thr Ala Gln Asn Thr  
 145 150 155 160  
 Gln Thr Gly Asn Gln Gln Glu Pro Ser Pro Asn Leu Ser Arg Glu Lys  
 165 170 175  
 Thr Arg Glu Asn Val Pro Asn Ser Asp Ser Gln Pro Pro Pro Ser Cys  
 180 185 190  
 Leu Thr Thr Ala Val Pro Ser Pro Ser Lys Pro Arg Thr Ala Gln Leu  
 195 200 205  
 Val Leu Gln Arg Met Gln Gln Phe Lys Arg Ala Asp Pro Glu Arg Leu  
 210 215 220  
 Arg His Ala Ser Glu Glu Cys Ser Leu Glu Ala Ala Arg Glu Glu Asn

225                      230                      235                      240  
 Val Pro Lys Asp Pro Gln Glu Glu Met Met Ala Gly Asn Val Tyr Gly  
                                  245                      250                      255  
 Leu Gly Pro Pro Ala Pro Glu Ser Asp Ala Ala Val Ala Leu Thr Leu  
                                  260                      265                      270  
 Gln Gln Glu Phe Ala Arg Val Gly Ala Ser Ala His Asp Asp Ser Leu  
                                  275                      280                      285  
 Glu Glu Lys Gly Leu Phe Phe Cys Gln Ile Cys Gln Lys Asn Leu Ser  
                                  290                      295                      300  
 Ala Met Asn Val Thr Arg Arg Glu Gln His Val Asn Arg Trp Gly Gln  
 305                      310                      315                      320  
 Leu Gly Pro Ser Pro Leu Pro Cys Met  
                                  325

<210> 3498

<211> 179

<212> PRT

<213> Homo sapiens

<400> 3498

Met Arg Gly Gly Gly Ser Ser Gly Glu Ile Gly Cys Phe Leu Leu Ser  
   1                      5                      10                      15  
 Phe Ser Glu Lys Phe Leu Glu Arg Trp Ser Gln Arg Asp Ala Gly Gly  
                                  20                      25                      30  
 Trp Gly Ala Pro Gly Ser Lys Arg Leu Lys Glu Ser Glu Lys Thr Gln  
                                  35                      40                      45  
 Ala His Arg Asp Thr Ser Asn Leu Arg Ala Thr Ala Gln Ala Glu Pro  
                                  50                      55                      60

Lys Ala Thr Glu Thr Leu Thr Pro Glu Lys Lys His Arg Asp Arg Gly  
 65                      70                      75                      80  
 Ser Arg Ser Ser Leu Cys His Cys Ser Ala Pro Glu Thr Pro Gln His  
                             85                      90                      95  
 Gly Glu Arg Ala Gly Gly Ser His Glu Lys Pro Arg Ala Leu Thr Gly  
                             100                      105                      110  
 Leu Leu Arg Gly Gly Arg Lys Ala Glu Thr Arg Pro Leu Glu Pro Pro  
                             115                      120                      125  
 Val Arg Thr Gly Pro Val Glu Trp Ala Gln Tyr Val Arg Thr Gln Arg  
                             130                      135                      140  
 Gly Arg Gln Ser Ile Gly Trp Gly Arg Leu Ser Leu Ile Phe Pro Arg  
 145                      150                      155                      160  
 Phe Ser Leu Leu Ser Gly Ser Val Val Leu Ser Pro Pro Ile Phe Thr  
                             165                      170                      175  
 Leu Val Ala

<210> 3499

<211> 303

<212> PRT

<213> Homo sapiens

<400> 3499

Met Thr Arg Ala Arg Ile Gly Cys Phe Gly Pro Gly Gly Arg Ala Arg  
 1                      5                      10                      15  
 Gly Thr Glu Ser Ala Pro Glu Pro Ser Lys Arg Val Pro Pro Gly Arg  
                             20                      25                      30  
 Ser Trp Gln Thr Gln Glu Val Arg Gln Thr Arg Gly Ala Asn Gly Leu

35	40	45
Gly Pro Arg Ala Gly Ser Ala Gly Ala Lys Ala Pro Gly Pro Ala Gln		
50	55	60
Gly Ala Ala Gln His Gly Leu Gly Gly Ser Ala Gly Leu Arg Val Arg		
65	70	75
Val Ser Pro Leu Ala Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu		
85	90	95
Val Leu Cys Leu Val Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu		
100	105	110
Pro Met Trp Gln Val Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala		
115	120	125
Gln Thr Thr Trp Lys Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr		
130	135	140
Gly His Met Gln Cys Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr		
145	150	155
Glu Val Gln Ala Ala Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala		
165	170	175
Phe Val Ala Leu Phe Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys		
180	185	190
Val Ala Pro Gly Pro Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val		
195	200	205
Leu Tyr Leu Phe Cys Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe		
210	215	220
Ala Asn Ile Val Val Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser		
225	230	235
Gln Lys Tyr Glu Leu Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr		
245	250	255
Ala Leu Leu Met Val Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val		
260	265	270

Cys Thr Gly Arg Pro Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro

275

280

285

Arg Arg Pro Thr Ala Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val

290

295

300

<210> 3500

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3500

Met Arg Asn Leu Gln Ser Ser Ile Gln Asn Trp Arg Arg His Thr Gln

1

5

10

15

Thr Thr Leu Gln Gly Arg Leu Ala Ala Glu Ala Gly Pro Met Lys Lys

20

25

30

Met Met Lys Lys Thr Met Arg Met Tyr His Val Tyr Tyr Trp Pro Gln

35

40

45

Thr Thr Ser Pro Leu Pro Arg Val Ala His Arg Lys Gln Pro Ala Pro

50

55

60

Phe Phe Phe Leu Phe Ser Pro Thr Thr His His Pro Ser Leu Gln Thr

65

70

75

80

Leu Pro Pro Thr Arg Leu Gly Cys Arg Val Cys Glu Ala Ala Gln Lys

85

90

95

Val Cys Lys Ser Pro Leu Cys Leu Ile Cys Val Phe Pro Arg Lys Arg

100

105

110

Ala Gly Ser Leu

115

&lt;210&gt; 3501

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3501

Met Phe His His Gln Gln Ala Tyr Cys Leu Ala Pro Phe Asp Leu Ile

1 5 10 15

Lys Val Arg Leu Gln Asn Gln Thr Glu Pro Arg Ala Gln Pro Gly Ser

20 25 30

Pro Pro Pro Arg Tyr Gln Gly Pro Val His Cys Ala Ala Ser Ile Phe

35 40 45

Arg Glu Glu Gly Pro Arg Gly Leu Phe Arg Gly Ala Trp Ala Leu Thr

50 55 60

Leu Arg Asp Thr Pro Thr Val Gly Ile Tyr Phe Ile Thr Tyr Glu Gly

65 70 75 80

Leu Cys Arg Gln Tyr Thr Pro Glu Gly Gln Asn Pro Ser Ser Ala Thr

85 90 95

Val Leu Trp Gln Gly Ala Leu Gln Ala Leu Leu Pro Gly Trp Gln Pro

100 105 110

Arg Pro

&lt;210&gt; 3502

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3502

Met Ala Gly Thr Leu Asp Leu Asp Lys Gly Cys Thr Val Glu Glu Leu

1 5 10 15

Leu Arg Gly Cys Ile Glu Ala Phe Asp Asp Ser Gly Lys Val Arg Asp

20 25 30

Pro Gln Leu Val Arg Met Phe Leu Met Met His Pro Trp Tyr Ile Pro

35 40 45

Ser Ser Gln Leu Ala Ala Lys Leu Leu His Ile Tyr Gln Gln Ser Arg

50 55 60

Lys Asp Asn Ser Asn Ser Leu Gln Val Lys Thr Cys His Leu Val Arg

65 70 75 80

Tyr Trp Ile Ser Ala Phe Pro Ala Glu Phe Asp Leu Asn Pro Glu Leu

85 90 95

Ala Glu Gln Ile Lys Glu Leu Lys Ala Leu Leu Asp Gln Glu Gly Asn

100 105 110

Arg Arg His Ser Ser Leu Ile Asp Ile Asp Ser Val Cys Val Gly Gly

115 120 125

Ala Gln Arg Ala Gly Gly Ala Leu Ser Ile Leu Tyr His Leu Cys Leu

130 135 140

Ile Asn Val Cys

145

&lt;210&gt; 3503

&lt;211&gt; 599

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3503

Met Glu His Phe Leu Leu Glu Val Ala Ala Ala Pro Leu Arg Leu Ile  
1 5 10 15  
Ala Ala Lys Asn Glu Lys Ser Arg Ser Glu Leu Gly Arg Phe Leu Ala  
20 25 30  
Lys Gln Val Trp Thr Pro Gln Asp Arg Gln Cys Val Leu Ser Thr Leu  
35 40 45  
Ala Gln Leu Leu Leu Asp Lys Asp Cys Thr Val Leu Val Gly Arg Gln  
50 55 60  
Leu Arg Pro Leu Leu Leu Asp Leu Leu Glu Arg Asn Ala Glu Ala Ile  
65 70 75 80  
Lys Ala Gly Gly Gln Ile Asn His Asp Leu His Glu Arg Leu Cys Val  
85 90 95  
Ser Met Ser Lys Leu Ile Gly Asn His Pro Asp Val Leu Pro Phe Ala  
100 105 110  
Leu Arg Tyr Phe Lys Asp Thr Ser Pro Val Phe Gln Arg Leu Phe Leu  
115 120 125  
Glu Ser Ser Asp Ala Asn Pro Val Arg Tyr Gly Arg Arg Arg Met Lys  
130 135 140  
Leu Arg Asp Leu Met Glu Ala Ala Phe Lys Phe Leu Gln Gln Glu Gln  
145 150 155 160  
Ser Val Phe Arg Glu Leu Trp Asp Trp Ser Val Cys Val Pro Leu Leu  
165 170 175  
Arg Ser His Asp Thr Leu Val Arg Trp Tyr Thr Ala Asn Cys Leu Ala  
180 185 190  
Leu Val Thr Cys Met Asn Glu Glu His Lys Leu Ser Phe Leu Lys Lys  
195 200 205  
Ile Phe Asn Ser Asp Glu Leu Ile His Phe Arg Leu Arg Leu Leu Glu  
210 215 220

出証特 2 0 0 4 - 3 0 5 9 6 6 0

450                      455                      460  
 Asp Lys Tyr Trp Thr Lys Ile His Leu Asp Asn Leu Asp Lys Arg Glu  
 465                      470                      475                      480  
 Leu Asn Glu Val Leu Gln Ser Arg Tyr Pro Ser Leu Leu Ala Val Val  
                     485                      490                      495  
 Asp His Leu Leu Asp Ile Tyr Ile Gln Leu Thr Gly Glu Lys His His  
                     500                      505                      510  
 Ser Trp Ser Asp Ser Ser Val Gly Cys Glu Gln Ala Pro Glu Glu Val  
                     515                      520                      525  
 Ser Glu Ala Arg Arg Glu Asn Lys Arg Pro Thr Leu Glu Gly Arg Glu  
                     530                      535                      540  
 Leu Ser Leu Arg Tyr Trp Thr Lys Gln Phe Phe Leu Phe Phe Leu Ser  
 545                      550                      555                      560  
 Phe Phe Phe Val Arg Gln Ile Pro Ala Leu Leu Pro Arg Leu Glu Cys  
                     565                      570                      575  
 Ser Gly Ala Val Leu Ala His Ser Asn Leu Arg Leu Leu Gly Ser Lys  
                     580                      585                      590  
 Phe Leu Pro Ala Arg Ser Lys  
                     595

&lt;210&gt; 3504

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3504

Met Ser Ser Glu Glu Ser Gly Thr Ser Ile Ser Leu Leu Pro Ala Leu

1

5

10

15

Ser Leu Ala Ala Pro Asp Pro Gly Gln Arg Ser Ser Ser Gln Pro Ser  
 20 25 30  
 Pro Ala Ile Cys Ser Ala Pro Ala Thr Leu Thr Pro Arg Ser Pro His  
 35 40 45  
 Ala Ser Arg Thr Pro Ser Ser Pro Leu Gln Ser Cys Thr Pro Ser Leu  
 50 55 60  
 Ser Pro Arg Ser His Val Pro Ser Pro His Gln Ala Leu Val Thr Arg  
 65 70 75 80  
 Pro Gln Lys Pro Ser Leu Glu Phe Lys Glu Phe Val Gly Leu Pro Cys  
 85 90 95  
 Lys Asn Arg Pro Pro Phe Pro Arg Thr Gly Ala Thr Arg Gly Ala Gln  
 100 105 110  
 Glu Pro Cys Ser Val Trp Glu Pro Pro Lys Arg His Arg Asp Gly Ser  
 115 120 125  
 Ala Phe Gln Tyr Glu Tyr Glu Pro Pro Cys Thr Ser Leu Cys Ala Arg  
 130 135 140  
 Val Gln Ala Val Arg  
 145

&lt;210&gt; 3505

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3505

Met Ser His Thr Ser His Leu Thr Leu Lys Ile Cys Val Ile His Arg  
 1 5 10 15  
 Pro Thr Leu Arg Tyr Leu Thr Leu Ile Ala Tyr Arg Gln His Val Arg

	20		25		30										
Ala	Pro	Arg	Gly	Arg	Cys	Ser	His	Pro	Asp	Lys	Lys	Ser	Ala	Ala	Leu
	35		40		45										
Val	Leu	Arg	Ile	Leu	Phe	Pro	Arg	Thr	Glu	Ala	Leu	Pro	Ser	Thr	Ile
	50		55		60										
Ser	Leu	Ala	Leu	Ala	Glu	Ser	Ser	Ser	Pro	Ile	Ala	Ser	Leu	Ser	Ser
	65		70		75										80
Thr	Ser	His	Ala	Ala	Leu	Arg	Pro	Gln	Gly	Asp	Gly	Gly	Arg	Gly	Val
		85			90									95	
Glu	Thr	Arg	Met	Glu	Trp	Asn	Ile	Phe	Ile	Lys					
	100				105										

&lt;210&gt; 3506

&lt;211&gt; 331

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3506

Met	Leu	Trp	Leu	Phe	Gln	Ser	Leu	Leu	Phe	Val	Phe	Cys	Phe	Gly	Pro
1			5						10					15	
Gly	Asn	Val	Val	Ser	Gln	Ser	Ser	Leu	Thr	Pro	Leu	Met	Val	Asn	Gly
		20						25						30	
Ile	Leu	Gly	Glu	Ser	Val	Thr	Leu	Pro	Leu	Glu	Phe	Pro	Ala	Gly	Glu
	35						40						45		
Lys	Val	Asn	Phe	Ile	Thr	Trp	Leu	Phe	Asn	Glu	Thr	Ser	Leu	Ala	Phe
	50					55					60				
Ile	Val	Pro	His	Glu	Thr	Lys	Ser	Pro	Glu	Ile	His	Val	Thr	Asn	Pro
	65			70					75					80	

Lys Gln Gly Lys Arg Leu Asn Phe Thr Gln Ser Tyr Ser Leu Gln Leu  
85 90 95  
Ser Asn Leu Lys Met Glu Asp Thr Gly Ser Tyr Arg Ala Gln Ile Ser  
100 105 110  
Thr Lys Thr Ser Ala Lys Leu Ser Ser Tyr Thr Leu Arg Ile Leu Arg  
115 120 125  
Gln Leu Arg Asn Ile Gln Val Thr Asn His Ser Gln Leu Phe Gln Asn  
130 135 140  
Met Thr Cys Glu Leu His Leu Thr Cys Ser Val Glu Asp Ala Asp Asp  
145 150 155 160  
Asn Val Ser Phe Arg Trp Glu Ala Leu Gly Asn Thr Leu Ser Ser Gln  
165 170 175  
Pro Asn Leu Thr Val Ser Trp Asp Pro Arg Ile Ser Ser Glu Gln Asp  
180 185 190  
Tyr Thr Cys Ile Ala Glu Asn Ala Val Ser Asn Leu Ser Phe Ser Val  
195 200 205  
Ser Ala Gln Lys Leu Cys Glu Asp Val Lys Ile Gln Tyr Thr Asp Thr  
210 215 220  
Lys Met Ile Leu Phe Met Val Ser Gly Ile Cys Ile Val Phe Gly Phe  
225 230 235 240  
Ile Ile Leu Leu Leu Leu Val Leu Arg Lys Arg Arg Asp Ser Leu Ser  
245 250 255  
Leu Ser Thr Gln Arg Thr Gln Gly Pro Glu Ser Ala Arg Asn Leu Glu  
260 265 270  
Tyr Val Ser Val Ser Pro Thr Asn Asn Thr Val Tyr Ala Ser Val Thr  
275 280 285  
His Ser Asn Arg Glu Thr Glu Ile Trp Thr Pro Arg Glu Asn Asp Thr  
290 295 300  
Ile Thr Ile Tyr Ser Thr Ile Asn His Ser Lys Glu Ser Lys Pro Thr

305                      310                      315                      320  
 Phe Ser Arg Ala Thr Ala Leu Asp Asn Val Val  
                          325                      330

<210> 3507

<211> 160

<212> PRT

<213> Homo sapiens

<400> 3507

Met Pro Ala Ile Ser Val Ser Pro Ser Leu Gln Lys Tyr Ser Lys Gln  
       1                      5                      10                      15  
 Gln Lys Leu Asn Thr Tyr Glu Val Asn Thr Lys Asp Leu His Arg Lys  
                       20                      25                      30  
 Ile Ser Gly Ser Ser Val Asp Ala Ile Ala His Cys Ser Ala Gly Gln  
                       35                      40                      45  
 Ser Ser Gly Leu Ser Phe Asp Phe Gly Pro Val Leu Gln Asn Gln Gln  
                       50                      55                      60  
 Pro Phe Ser Gln Lys Thr Val Glu Cys Ser Gln Asp His Leu Trp Lys  
       65                      70                      75                      80  
 Val Asn Tyr Ser Ile Phe Asn Leu Leu Pro Trp Ala Met Met Ser Glu  
                       85                      90                      95  
 Thr Gln His Gly Gly Arg Thr Ser Ser Cys Val Gly Asn Leu Ser Glu  
                       100                      105                      110  
 Pro Pro Trp Arg Pro Pro Lys Trp Leu Trp Gln Ser Cys Arg Gly Gly  
                       115                      120                      125  
 Gly Asn Lys Lys Gly Asp Thr Trp Leu Ser Phe Leu Asn Gln Leu Thr  
       130                      135                      140

Met Gly Thr His Leu Tyr Trp Asn Phe Arg Val Arg Lys Tyr Gln Asn  
 145 150 155 160

<210> 3508

<211> 162

<212> PRT

<213> Homo sapiens

<400> 3508

Met Lys Ser Cys Ser Leu Ala Gly Ala Gly Val Gln Trp His Asp Phe  
 1 5 10 15  
 Gly Ser Leu Gln Pro Pro Pro Pro Ser Phe Arg Arg Phe Ser Cys Leu  
 20 25 30  
 Thr Leu Pro Arg Ala Gly Ile Thr Gly Val His His His Ser Trp Leu  
 35 40 45  
 Ile Phe Val Phe Leu Val Gln Met Arg Phe His His Val Gly Gln Ala  
 50 55 60  
 Gly Phe Glu Leu Met Thr Leu Ser Gly Leu Pro Ala Leu Ala Ser Gln  
 65 70 75 80  
 Asn Ala Gly Ile Thr Gly Met Ser Tyr Tyr Ala Trp Pro Gly Leu Ile  
 85 90 95  
 Leu Glu Ile Asp Arg Leu Cys Val Ala Leu Ala Thr Val Gln Trp Leu  
 100 105 110  
 Phe Thr Ala Val Ile Met Ala His Arg Ser Pro Lys Leu Lys Val Gly  
 115 120 125  
 Ser Ser Cys Leu Pro Ile Ser Ala Phe Leu Val Ala Arg Thr Thr Gly  
 130 135 140  
 Thr Leu His His Thr Gln Leu Val Leu Gly Val Leu Ser Lys Leu Asp

145                      150                      155                      160  
 Thr Trp

<210> 3509

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3509

Met Ala Lys Glu Ile Lys Ser Asn Arg Gln Glu Arg Gly Ala Thr Gly  
           1                  5                  10                  15  
 Leu Val Asn Ser Gln Thr Glu Leu Val Ile Gly Gln Trp Lys Val Asp  
                   20                  25                  30  
 Cys Ser Thr Phe Pro Phe Leu Lys Val Val Cys Tyr Lys Glu Pro Pro  
                   35                  40                  45  
 Leu His Val Arg Ala Ala Leu Asp Ser Leu Ser Phe Ile His Met Ser  
                   50                  55                  60  
 Glu Gly Leu Cys Ser Arg Ala Met Arg Glu Glu Phe Ala Thr Leu Arg  
                   65                  70                  75                  80  
 Ala Val Ser Trp Asn Pro Gly Ala Pro Phe His Val Ser Leu Gly Ala  
                   85                  90                  95  
 Glu Arg Val Thr His Val Trp Glu Trp Tyr Val Trp Gln Ser Met Trp  
                   100                  105                  110  
 Ala Phe Gly Phe Leu His Trp Cys Ala His Ile Leu Cys Pro Met Ile  
                   115                  120                  125  
 Phe Asn Leu Asp Lys Glu Ile Asp Ile Cys Phe Pro His Leu Gly Asp  
                   130                  135                  140

Lys

145

&lt;210&gt; 3510

&lt;211&gt; 606

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3510

Met Phe Gly Asn Glu Cys Cys Phe Ser Thr Gly Glu Val Ile Lys Ile

1 5 10 15

Thr Gly Leu Lys Val Lys Lys Ile Ile Ala Glu Ile Cys Glu Gln Ile

20 25 30

Glu Gly Cys Glu Phe Leu Gln Pro Phe Glu Leu Pro Met Asn Phe Pro

35 40 45

Gly Leu Phe Lys Ile Val Ala Asp Lys Thr Pro Tyr Leu Thr Met Glu

50 55 60

Glu Ile Thr Arg Thr Ile His Ile Gly Pro Ser Arg Leu Gly His Pro

65 70 75 80

Cys Phe Tyr His Gln Lys Asp Ile Lys Leu Glu Asn Leu Ile Ile Lys

85 90 95

Gln Gly Glu Gln Ile Met Leu Asn Ser Val Glu Glu Ile Asp Gly Glu

100 105 110

Ile Met Val Ser Cys Ala Val Ala Arg Asn His Gln Thr His Ser Phe

115 120 125

Asn Leu Pro Leu Ser Gln Glu Gly Glu Phe Tyr Glu Cys Glu Asp Glu

130 135 140

Arg Ile Tyr Thr Leu Lys Glu Ile Val Glu Trp Lys Ile Pro Lys Asn

145                      150                      155                      160  
Arg Thr Arg Thr Val Asn Leu Thr Asp Phe Ser Asn Lys Trp Asp Ser  
                         165                      170                      175  
Thr Asn Pro Phe Pro Lys Asp Phe Cys Gly Thr Leu Ile Leu Lys Pro  
                         180                      185                      190  
Val Tyr Glu Ile Gln Gly Val Met Lys Phe Arg Lys Asp Ile Ile Arg  
                         195                      200                      205  
Ile Leu Pro Ser Leu Asp Val Glu Val Lys Asp Ile Thr Asp Ser Tyr  
                         210                      215                      220  
Asp Ala Asn Trp Phe Leu Gln Leu Leu Ser Thr Glu Asp Leu Phe Glu  
225                      230                      235                      240  
Met Thr Ser Lys Glu Phe Pro Ile Val Thr Glu Val Ile Glu Ala Pro  
                         245                      250                      255  
Glu Gly Asn His Leu Pro Gln Ser Ile Leu Gln Pro Gly Lys Thr Ile  
                         260                      265                      270  
Val Ile His Lys Lys Tyr Gln Ala Ser Arg Ile Leu Ala Ser Glu Ile  
                         275                      280                      285  
Arg Ser Asn Phe Pro Lys Arg His Phe Leu Ile Pro Thr Ser Tyr Lys  
                         290                      295                      300  
Gly Lys Phe Lys Arg Arg Pro Arg Glu Phe Pro Thr Ala Tyr Asp Leu  
305                      310                      315                      320  
Glu Ile Ala Lys Ser Glu Lys Glu Pro Leu His Val Val Ala Thr Lys  
                         325                      330                      335  
Ala Phe His Ser Pro His Asp Lys Leu Ser Ser Val Ser Val Gly Asp  
                         340                      345                      350  
Gln Phe Leu Val His Gln Ser Glu Thr Thr Glu Val Leu Cys Glu Gly  
                         355                      360                      365  
Ile Lys Lys Val Val Asn Val Leu Ala Cys Glu Lys Ile Leu Lys Lys  
                         370                      375                      380

Ser Tyr Glu Ala Ala Leu Leu Pro Leu Tyr Met Glu Gly Gly Phe Val			
385	390	395	400
Glu Val Ile His Asp Lys Lys Gln Tyr Pro Ile Ser Glu Leu Cys Lys			
	405	410	415
Gln Phe Arg Leu Pro Phe Asn Val Lys Val Ser Val Arg Asp Leu Ser			
	420	425	430
Ile Glu Glu Asp Val Leu Ala Ala Thr Pro Gly Leu Gln Leu Lys Glu			
	435	440	445
Asp Ile Thr Asp Ser Tyr Leu Leu Ile Ser Asp Phe Ala Asn Pro Thr			
	450	455	460
Glu Cys Trp Glu Ile Pro Val Gly Arg Leu Asn Met Thr Val Gln Leu			
465	470	475	480
Val Ser Asn Phe Ser Arg Asp Ala Glu Pro Phe Leu Val Arg Thr Leu			
	485	490	495
Val Glu Glu Ile Thr Glu Glu Gln Tyr Tyr Met Met Arg Arg Tyr Glu			
	500	505	510
Ser Ser Ala Ser His Pro Pro Pro Arg Pro Pro Lys His Pro Ser Val			
	515	520	525
Glu Glu Thr Lys Leu Thr Leu Leu Thr Leu Ala Glu Glu Arg Thr Val			
	530	535	540
Asp Leu Pro Lys Ser Pro Lys Arg His His Val Asp Ile Thr Lys Lys			
545	550	555	560
Leu His Pro Asn Gln Ala Gly Leu Asp Ser Lys Val Leu Ile Gly Ser			
	565	570	575
Gln Asn Asp Leu Val Asp Glu Glu Lys Glu Arg Ser Asn Arg Gly Ala			
	580	585	590
Thr Ala Val Ala Glu Thr Phe Lys Asn Glu Lys His Gln Lys			
	595	600	605

<210> 3511

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3511

Met Glu Met Trp Glu Arg Gln Leu Phe Leu Thr Thr Gln Pro Ser Pro

1 5 10 15

Leu Pro Gly Gly Thr Pro Arg Asn Glu Ala Leu Pro Leu Arg Glu Phe

20 25 30

Pro Ala Thr Pro Ser Leu Gly Pro Gly Met Ala Ala Val Arg Ala Pro

35 40 45

Ala Pro Ser Gly Asp Ser Leu Gly Thr Asn Tyr His Arg Pro Trp Ala

50 55 60

Thr Ser Lys Ala Ala His Thr Asp Thr Pro Ser Leu Val Thr Ser Pro

65 70 75 80

Gln Glu Glu Gly His Pro Arg Lys Gly Gly Arg Leu Pro Gly Leu Glu

85 90 95

Pro Leu Gln Gly Leu Thr Arg His

100

<210> 3512

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3512

Met Glu Ala Gly Cys Lys Leu Lys Leu Lys Pro Pro Leu Tyr Phe Ser  
 1 5 10 15  
 Ser Thr Ile Gly Phe Glu Ser Pro Asp Gly Ser Ser Tyr Pro His Phe  
 20 25 30  
 Lys Pro Cys Leu Leu Thr Ile Ser Ser Cys Ser Leu Thr Gln Ser Pro  
 35 40 45  
 Ala Met Ala Ser Ser Leu Ser Ser Thr Val Lys Gly Arg Leu Phe Thr  
 50 55 60  
 Gln Ala His Lys Thr Leu Asp Tyr His Ser Pro Val Ile Leu Leu Ser  
 65 70 75 80  
 Tyr Cys Ser Leu Leu Tyr Leu Ser Pro Leu Lys Pro Pro Trp Pro Pro  
 85 90 95  
 Pro Ile Leu Val Ser Leu His  
 100

&lt;210&gt; 3513

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3513

Met Ser His Arg Ala Trp Pro Thr Ser Ala Leu Leu Asn Leu Ser Ser  
 1 5 10 15  
 Leu Ser Leu Thr Leu Pro Gln Trp Leu Leu Tyr Gln Pro Thr Lys Lys  
 20 25 30  
 Ala Pro Leu Pro Thr Leu Ala Gly Gln Arg Ala His Ser Leu Pro Ser  
 35 40 45  
 His Lys Pro Val Pro His Ala Trp Ala Leu Leu Arg Pro Lys Gln Pro

50	55	60
Ser Ser Asn Ser Glu Glu Asn Pro Glu Leu Leu Leu Leu Thr Val Val		
65	70	75
Ile His Pro Leu Asn Ala Tyr Cys Gly Ser Pro Glu Thr Ile Thr Trp		80
	85	90
Leu Ala Ser Val Asn Ser His Asn Ser Phe Gln Cys Tyr His Ser Cys		95
100	105	110
Val Cys Pro Leu Leu Pro Trp Leu Ser Pro Arg Tyr Phe Leu Gln Asp		
115	120	125
Ser Val Pro Ser Leu Val Ser Gly Phe Ser Arg Tyr Leu Pro Met Ala		
130	135	140
Cys Leu Gly Pro Ala Ser Gly Asn Pro Ala Trp Ile Val Ala Arg Lys		
145	150	155
Gly Cys Glu Asp Trp Met Pro Pro Phe Val Phe Val Phe Ser Phe Ile		
165	170	175
Pro Ser Phe Leu Ser Ser Leu Pro Ser Phe Leu Pro Leu Ser Leu Ser		
180	185	190
Leu Ser Phe Phe Leu Ser Leu Phe Leu Phe Leu Cys Leu Phe Phe Phe		
195	200	205
Leu Phe Phe Arg Thr Cys His Pro Gly Trp Ser Ala Val Ala Gln Ser		
210	215	220
Trp Leu Thr Thr Ile Ser Ala Ser Gln Ile Gln Ala Ile Leu Arg Pro		
225	230	235
Gln Pro Pro Lys		240

&lt;210&gt; 3514

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3514

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Met Arg Val Pro Val Leu Tyr Pro Phe Gln His Leu Val Leu Ser Val
  1             5             10             15
Lys Lys Ile Ile Leu Val Ser Met Gln Trp Tyr Leu Ile Lys Asp Thr
          20             25             30
Gln Met Ala Asn Lys Gln Met Lys Arg Cys Ser Ile Ser Leu Ala Thr
          35             40             45
Gly Glu Met Gln Ile Lys Thr Thr Val Arg Tyr His Phe Thr Pro Thr
          50             55             60
Arg Phe Thr Ile Ile Lys Arg Trp Lys Ile Thr Ser Val Asp Lys Asn
          65             70             75             80
Leu Glu Lys Met Glu Pro Ser Tyr Thr Ile Gly Gly Asn Val Gly Trp
          85             90             95
Cys Ser Cys Ser Glu Lys Gln Phe Leu Thr Leu Gly
          100             105

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&lt;210&gt; 3515

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3515

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Met Glu Ala Arg Pro Pro Pro Glu Arg Gly Ser Leu Lys Ile Ile Leu
  1             5             10             15
Thr Ser Leu Ser Ser Val Leu Thr Ser Leu Asp Cys Ile Leu Ser Phe

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<210> 3516

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3516

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Thr Met Trp Asp Gly Pro Gly Arg Val Cys Glu Phe Pro Val Ala Ala  
                             85                            90                            95  
 Val Thr Asn Tyr His Lys Phe Ser Gly Leu Lys Leu Ile Lys Met Gly  
                             100                            105                            110  
 Arg Val Gln Trp Leu Met Pro Val Ile Pro Ala Leu  
                             115                            120

<210> 3517

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3517

Met Pro Phe Ala Trp Pro Ala Pro Glu Trp Pro Gln Cys Gly Arg Ala  
     1                            5                            10                            15  
 Ala Glu Ala Pro Arg His Gln Cys Asp Pro Val Ser Thr Ala Cys Ser  
                             20                            25                            30  
 Leu Trp Thr Pro Phe Ser Ser His Gly Pro Pro Arg His Ser Ala Pro  
                             35                            40                            45  
 Gly Pro Ser Ala Phe Pro Gln Leu Ala Leu Trp Lys Cys Gly Gln Gln  
                             50                            55                            60  
 Cys Phe Gln Ser Pro Ser Ala Trp Val Cys Pro Val Phe Pro Cys Val  
     65                            70                            75                            80  
 Asp Glu Gly Pro Ala Leu Leu Ala Gly Ala Ala Leu Asp Thr Pro Phe  
                             85                            90                            95  
 Pro Arg His Ser Pro Gly Leu Ala His Met Gln Leu Arg Ser Arg Gly  
                             100                            105                            110  
 Met Leu Thr Gln Arg Leu Val Gly Ala Ala Ser Thr Asp Phe Ser Leu

115                      120                      125  
 Glu Ser Ser Cys Leu Leu Phe Ile Val Ser Arg Cys Leu Arg Glu Ile  
 130                      135                      140  
 Pro  
 145

<210> 3518

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3518

Met Phe Lys Lys Asn Gly Ser Phe Arg Asn Asp Lys Leu Phe His Pro  
 1                      5                      10                      15  
 Ile Thr Pro Asn Thr Cys Gly Ser Asp Ser Ser Leu His Leu Tyr Ile  
 20                      25                      30  
 Leu Tyr Leu His Trp Pro Asp His Pro Arg Thr Thr Tyr Leu Thr Ser  
 35                      40                      45  
 Ala Pro Phe Cys Leu Leu Thr Gln His Ser Leu Ser Leu Ser Phe Ser  
 50                      55                      60  
 Leu Pro Leu Pro Leu Phe Leu Pro Arg Pro Ser Val Thr His Thr His  
 65                      70                      75                      80  
 Thr His Thr His Thr His Arg Leu His Asn Ala His Arg Asn Val Leu  
 85                      90                      95  
 Ile Pro Phe Val  
 100

&lt;210&gt; 3519

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3519

Met Gly Gly Arg Ser His Pro Gln Pro Ala Gly Thr Arg Trp Arg Leu

1 5 10 15

Lys Ser Leu Ser Thr Leu Thr Leu Val His Leu Thr Gly Thr Leu Thr

20 25 30

Ser Ile Ser Lys Thr Trp Ser Leu Arg Thr Pro Cys Leu Gln Arg Leu

35 40 45

Leu Ile Ser Ser Arg Val Leu Gly Ile Gln Gly Arg Gly Gln Pro Gly

50 55 60

Trp Thr Gly Ser Trp Glu Gly Val Ser Trp Gln Pro Pro Gly Gln Thr

65 70 75 80

Asp Leu Pro Ala Cys Gln Arg Gln Pro Val Leu Pro Ala Pro Thr Arg

85 90 95

Thr Ser Ser Gln Ala Arg Cys

100

&lt;210&gt; 3520

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3520

Met Arg Ile Leu Val Ile Pro His Leu Gln Gln His Leu Gly Tyr Phe

1	5	10	15
Thr Trp Phe Ile Ile Cys Ile Ser Leu Met Thr Asn Glu Arg His Phe			
20	25	30	
Val Ile Tyr Val Phe Asp Val Tyr Leu Ser Ser Ile Val Lys Cys Leu			
35	40	45	
Phe Lys Ser Phe Asp His Ile Leu Ile Gly Gln Leu Phe Phe Leu Leu			
50	55	60	
Leu Asn Tyr Ser Pro Leu Ser Ile Leu Asn Thr Ile Pro Ser Ser Asp			
65	70	75	80
Met Arg Ser Val Asn Ile Phe Ser Gln Ala Ala Ala Cys Leu Phe Ile			
85	90	95	
Phe Leu Leu Val Tyr Phe Val Lys Phe			
100	105		

&lt;210&gt; 3521

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3521

Met Ser Gly Ser Ser Arg Met Gly Thr Thr Thr Ser Arg Ser Gly Ser			
1	5	10	15
Glu Pro Pro Ala Val Arg Pro Ala Lys Ala Arg Val Arg Met Pro Ser			
20	25	30	
Arg Ser Met Ala Pro Gly Ser Ala Pro Pro Arg Cys Gly Lys Gly Leu			
35	40	45	
Gly Arg Ala Leu Arg Pro Leu Pro Arg Ser Pro Cys Ser Pro His Ser			
50	55	60	

出証特 2 0 0 4 - 3 0 5 9 6 6 0

100

&lt;210&gt; 3523

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3523

Met Ala Trp Ile Pro Leu Phe Leu Gly Leu Leu Ala Tyr Cys Thr Gly

1 5 10 15

Ser Val Ala Ser Tyr Asp Leu Ile Gln Thr Pro Ser Leu Ser Val Ser

20 25 30

Pro Gly Leu Thr Ala Thr Ile Thr Cys Ser Gly Asp Arg Leu Gly Ser

35 40 45

Arg Phe Val Ser Trp Tyr Gln Gln Arg Ser Gly Gln Ser Pro Val Val

50 55 60

Val Leu Phe Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe

65 70 75 80

Ser Gly Ser Asn Ser Gly Asp Thr Ala Thr Leu Asn Ile Thr Gly Ala

85 90 95

Gln Thr Leu Asp Glu Ala His Tyr Tyr Cys Gln Val Trp Asp Ala Asp

100 105 110

Thr Gly Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Glu

115 120 125

Thr Leu Cys Val Ile Ser Phe Phe Val Cys Pro Leu Ser Asn Glu Asp

130 135 140

Gln Ser Phe Ser Leu His Ser Arg Pro Asp Arg Gly Pro Leu Ser Ser

145 150 155 160

Leu Leu Arg Pro Ser Ile Gly Ser Pro Arg Arg His Thr His Ser Met

165

170

175

Thr Asp Thr Arg Val Arg Gly Gln Asp Gly Val Ala Tyr

180

185

<210> 3524

<211> 143

<212> PRT

<213> Homo sapiens

<400> 3524

Met Gly Asp Leu Thr Cys Arg Thr Trp Thr Cys Gln His Arg Ser Leu

1

5

10

15

Leu Thr Leu Pro Val Cys Gly Phe Leu Pro Ser Cys Ala Pro Trp Leu

20

25

30

Arg Arg Pro Gly Asn Ser Ser Leu Gly Ile Pro Ala Glu Gln Leu Leu

35

40

45

Gly Leu Gly Tyr Thr Ser Gln Trp Glu Gly Leu Ala Trp Gly Leu Arg

50

55

60

Ala Arg Gly Gly Val Val Gly Gly Val Cys Leu Thr Ser Lys Asn Leu

65

70

75

80

Leu Gln Ile Arg Glu Asn Met Lys Glu Leu Asp Phe Gly Phe Pro Gly

85

90

95

Leu Pro Asp Leu Val Ala Leu Gly Ser Gly Asp Ile Trp Arg Leu Ile

100

105

110

Leu Cys Ser Arg Asp Lys Asn Pro Leu His Ala His Ser Leu Phe Pro

115

120

125

Leu Asn Arg Glu Lys Leu Gly Leu Glu Asp Thr Ala Pro Thr Ser

130

135

140

&lt;210&gt; 3525

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3525

Met Gly Ala Glu Ala Ser Ser Ser Trp Cys Pro Gly Thr Ala Leu Pro

1

5

10

15

Glu Glu Arg Leu Ser Val Lys Arg Ala Ser Glu Ile Ser Gly Phe Leu

20

25

30

Gly Gln Gly Ser Ser Gly Glu Ala Ala Leu Asp Val Leu Thr His Val

35

40

45

Leu Glu Gly Ala Gly Asn Lys Leu Thr Ser Ser Cys Gly Lys Pro Ser

50

55

60

Ser Asn Arg Met Ser Leu Gln Trp Thr Ala Val Ala Thr Phe Leu Tyr

65

70

75

80

Ala Glu Val Phe Val Val Leu Leu Leu Cys Ile Pro Phe Ile Ser Pro

85

90

95

Lys Arg Trp Gln Lys Ile Phe Lys Ser Arg Leu Val Glu Leu Leu Val

100

105

110

Ser Tyr Gly Asn Thr Phe Phe Val Val Leu Ile Val Ile Leu Val Leu

115

120

125

Leu Val Ile Asp Ala Val Arg Glu Ile Arg Lys Tyr Asp Asp Val Thr

130

135

140

Glu Lys Val Asn Leu Gln Asn Asn Pro Gly Ala Met Glu His Phe His

145

150

155

160

Met Lys Leu Phe Arg Ala Gln Arg Asn Leu Tyr Ile Ala Gly Phe Ser  
165 170 175

Leu Leu Leu Ser Phe Leu Leu Arg Arg Leu Val Thr Leu Ile Ser Gln  
180 185 190

Gln Ala Thr Leu Leu Ala Ser Asn Glu Ala Phe Lys Lys Gln Ala Glu  
195 200 205

Ser Ala Ser Glu Ala Ala Lys Lys Tyr Met Glu Glu Asn Asp Gln Leu  
210 215 220

Lys Lys Gly Ala Ala Val Asp Gly Gly Lys Leu Asp Val Gly Asn Ala  
225 230 235 240

Glu Val Lys Leu Glu Glu Glu Asn Arg Ser Leu Lys Ala Asp Leu Gln  
245 250 255

Lys Leu Lys Asp Glu Leu Ala Ser Thr Lys Gln Lys Leu Glu Lys Ala  
260 265 270

Glu Asn Gln Val Leu Ala Met Arg Lys Gln Ser Glu Gly Leu Thr Lys  
275 280 285

Glu Tyr Asp Arg Leu Leu Glu Glu His Ala Lys Leu Gln Ala Ala Val  
290 295 300

Asp Gly Pro Met Asp Lys Lys Glu Glu  
305 310

<210> 3526

<211> 151

<212> PRT

<213> Homo sapiens

<400> 3526

Met Glu Pro Ala Leu Arg Trp Arg Thr Gln Thr Leu Ser Leu Lys Gly

1	5	10	15
Arg Arg Arg Thr Gly Asn Ser Trp Ala His Pro Arg Asp Lys Arg His			
20	25	30	
Arg Leu Asn Ile Ser Pro Pro Pro Ser Pro Thr Asn Leu Pro Arg Arg			
35	40	45	
Pro Ala Pro Thr Pro Pro Pro Arg Pro Asp Pro Pro Leu Ala Val Gly			
50	55	60	
Val Thr Gln Gly Gln Arg Leu Arg Val Pro Gly Asp Lys Val Gly His			
65	70	75	80
Ser Ser Ser Leu His Pro Gly Pro Arg Asn Thr His Gln Arg Thr Ala			
85	90	95	
Val Arg Gly Arg Thr Arg Ala Cys Val Cys Val Cys Val Cys Val Arg			
100	105	110	
Ala Arg Ala Arg Ala His Thr Gly Gln Gly Ser Leu Ile Arg Asn Ala			
115	120	125	
Gly Gly Thr Ser Ser Val Ser Asp Phe Arg Phe Phe His Ile Ser Glu			
130	135	140	
Cys Leu His Tyr Ile Val Ser			
145	150		

&lt;210&gt; 3527

&lt;211&gt; 361

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3527

Met Cys Val Trp Arg Leu Ile Leu Asp Ala Val Asp Gly Arg Glu Cys
1 5 10 15

His His Leu Val His Cys Tyr Met Pro Gln Glu Ile Ile Ala Gln Pro  
 20 25 30  
 Phe Leu Asn Phe Lys Val Phe Leu Phe Asn Arg Phe Cys Thr Asp Cys  
 35 40 45  
 Lys Asn Lys Val Leu Arg Ala Tyr Asn Ile Leu Ile Gly Glu Leu Asp  
 50 55 60  
 Cys Ser Lys Glu Lys Gly Tyr Cys Ala Ala Leu Tyr Glu Gly Leu Arg  
 65 70 75 80  
 Cys Cys Pro His Glu Arg His Ile His Val Cys Cys Glu Thr Asp Phe  
 85 90 95  
 Ile Ala His Leu Leu Gly Arg Ala Glu Pro Glu Phe Ala Gly Gly Arg  
 100 105 110  
 Arg Glu Arg His Ala Lys Thr Ile Asp Ile Ala Gln Glu Glu Val Leu  
 115 120 125  
 Thr Cys Leu Gly Ile His Leu Tyr Glu Arg Leu His Arg Ile Trp Gln  
 130 135 140  
 Lys Leu Arg Ala Glu Glu Gln Thr Trp Gln Met Leu Phe Tyr Leu Gly  
 145 150 155 160  
 Val Asp Ala Leu Arg Lys Ser Phe Glu Met Thr Val Glu Lys Val Gln  
 165 170 175  
 Gly Ile Ser Arg Leu Glu Gln Leu Cys Glu Glu Phe Ser Glu Glu Glu  
 180 185 190  
 Arg Val Arg Glu Leu Lys Gln Glu Lys Lys Arg Gln Lys Arg Lys Asn  
 195 200 205  
 Arg Arg Lys Asn Lys Cys Val Cys Asp Ile Pro Thr Pro Leu Gln Thr  
 210 215 220  
 Ala Asp Glu Lys Glu Val Ser Gln Glu Lys Glu Thr Asp Phe Ile Glu  
 225 230 235 240  
 Asn Ser Ser Cys Lys Ala Cys Gly Ser Thr Glu Asp Gly Asn Thr Cys

245	250	255
Val Glu Val Ile Val Thr Asn Glu Asn Thr Ser Cys Thr Cys Pro Ser		
260	265	270
Ser Gly Asn Leu Leu Gly Ser Pro Lys Ile Lys Lys Gly Leu Ser Pro		
275	280	285
His Cys Asn Gly Ser Asp Cys Gly Tyr Ser Ser Ser Met Glu Gly Ser		
290	295	300
Glu Thr Gly Ser Arg Glu Gly Ser Asp Val Ala Cys Thr Glu Gly Ile		
305	310	315
Cys Asn His Asp Glu His Gly Asp Asp Ser Cys Val His His Cys Glu		
325	330	335
Asp Lys Glu Asp Asp Gly Asp Ser Cys Val Glu Cys Trp Ala Asn Ser		
340	345	350
Glu Glu Asn Asp Thr Lys Gly Lys Asn		
355	360	

&lt;210&gt; 3528

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3528

Met Arg Pro Gln Ser Phe Arg Ser Arg Pro Trp Gly Val Arg Ala Pro		
1	5	10
Pro Gly Asn Thr Val Arg Pro Gln Arg Leu Gln Pro Lys Leu Ala Arg		
20	25	30
Ser Met Gly Gln Val Pro Leu Cys Leu Glu Lys Pro Gly Ala Leu Leu		
35	40	45

Pro Cys Pro Pro Glu Pro Thr Ala Gly Arg Thr Pro Pro Ala Pro Pro  
 50 55 60  
 His Pro Val Ala Arg Asp Pro Ser Glu Asn Ser Glu Ala Gly Pro Arg  
 65 70 75 80  
 Ala Val Pro Ala Gly Ala Arg Pro Val Gly Arg Thr Gln Pro Arg Asn  
 85 90 95  
 Gln Leu Pro Glu Thr Arg Val Pro Leu Gly Cys Pro Pro Ala Trp Arg  
 100 105 110  
 Arg Pro Gln Ala Arg Ser His Pro Phe Pro Glu Leu Gln Asp Arg Ala  
 115 120 125  
 Ser Ser  
 130

&lt;210&gt; 3529

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3529

Met Gly Ile Cys Phe Glu Glu Lys Ser Cys Lys Cys Phe Cys Leu Ile  
 1 5 10 15  
 Phe Ile Ala Leu Gly Met Val Pro Pro Pro Glu Asn Val Arg Met Asn  
 20 25 30  
 Ser Val Asn Phe Lys Asn Ile Leu Gln Trp Glu Ser Pro Ala Phe Ala  
 35 40 45  
 Glu Gly Asn Leu Thr Phe Thr Ala Gln Tyr Leu Ser Tyr Arg Ile Phe  
 50 55 60  
 Gln Asp Lys Cys Met Asn Thr Thr Leu Thr Glu Cys Asp Phe Ser Ser

65	70	75	80
Leu Ser Lys Tyr Gly Asp His Thr Leu Arg Val Arg Ala Glu Phe Ala			
	85	90	95
Asp Glu His Ser Asp Trp Val Asn Ile Thr Phe Cys Pro Val Asp Asp			
	100	105	110
Thr Ile Ile Gly Pro Pro Gly Met Gln Val Glu Val Leu Ala Asp Ser			
	115	120	125
Leu His Met Arg Phe Leu Ala Pro Lys Ile Glu Asn Glu Tyr Glu Thr			
	130	135	140
Trp Thr Met Lys Asn Val Tyr Asn Ser Trp Thr Tyr Asn Val Gln Tyr			
145	150	155	160
Trp Lys Asn Gly Thr Asp Glu Lys Phe Gln Ile Thr Pro Gln Tyr Asp			
	165	170	175
Phe Glu Val Leu Arg Asn Leu Glu Pro Trp Thr Thr Tyr Cys Val Gln			
	180	185	190
Val Arg Gly Phe Leu Pro Asp Arg Asn Lys Ala Gly Glu Trp Ser Glu			
	195	200	205
Pro Val Cys Glu Gln Thr Thr His Asp Glu Thr Val Pro Ser Trp Met			
	210	215	220
Val Ala Val Ile Leu Met Ala Ser Val Phe Met Val Cys Leu Ala Leu			
225	230	235	240
Leu Gly Cys Phe Ala Leu Leu Trp Cys Val Tyr Lys Lys Thr Lys Tyr			
	245	250	255
Ala Phe Ser Pro Arg Asn Ser Leu Pro Gln His Leu Lys Glu Phe Leu			
	260	265	270
Gly His Pro His His Asn Thr Leu Leu Phe Phe Ser Phe Pro Leu Ser			
	275	280	285
Asp Glu Asn Asp Val Phe Asp Lys Leu Ser Val Ile Ala Glu Asp Ser			
	290	295	300

Glu Ser Gly Lys Gln Asn Pro Gly Asp Ser Cys Ser Leu Gly Thr Pro  
 305 310 315 320

Pro Gly Gln Gly Pro Gln Ser

325

<210> 3530

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3530

Met Leu Glu Lys Gly Ala Leu Asp Leu Ala Thr Ser Gly Leu Cys Thr  
 1 5 10 15

Pro Gly Ala Glu Gly Thr Gln Gly Cys Thr Tyr Thr Leu Lys Ala Thr  
 20 25 30

Val Arg Thr Gly Glu Gln Gly Gln Arg Ala Met Glu Ser Pro Ala Glu  
 35 40 45

Gly Cys Thr Ser Arg Leu Lys Arg Ala Leu Pro Ala Ser Ala Arg Lys  
 50 55 60

Pro Gly Leu Trp Gly Cys Val Ile Val Asp Asp His Phe Gln Val Met  
 65 70 75 80

Ala Thr Ala Pro Val Leu Val Thr Ala Gly Pro Pro Ile Leu Leu Arg  
 85 90 95

His Pro Pro Leu Ser His Arg Ala Val Phe Arg Ala Ser Ala Gly Leu  
 100 105 110

Ser Cys Cys Ser Gln Thr Leu Ala Leu Arg Lys Ala Gly Gln Ser Thr  
 115 120 125

Ser Cys Ser Leu Arg Gly Gly Gln Val Phe Val Ser Lys Gly Gly Lys

130	135	140
Pro Gly Glu Arg Arg His Gln Ala Pro Glu Thr Phe Glu Met Thr Ser		
145	150	155
Glu Asp Pro Gly Pro Leu Arg Val Thr Thr Ser Asp Ser Cys Leu Pro		
	165	170
Gln Ala Val Thr Asp Val		175
	180	

&lt;210&gt; 3531

&lt;211&gt; 430

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3531

Met Phe Asp Gly Tyr Asp Ser Cys Ser Glu Asp Thr Ser Ser Ser Ser		
1	5	10
Ser Ser Glu Glu Ser Glu Glu Glu Val Ala Pro Leu Pro Ser Asn Leu		
	20	25
Pro Ile Ile Lys Asn Asn Gly Gln Val Tyr Thr Tyr Pro Asp Gly Lys		30
	35	40
Ser Gly Met Ala Thr Cys Glu Met Cys Gly Met Val Gly Val Arg Asp		45
	50	55
Ala Phe Tyr Ser Lys Thr Lys Arg Phe Cys Ser Val Ser Cys Ser Arg		60
65	70	75
Ser Tyr Ser Ser Asn Ser Lys Lys Ala Ser Ile Leu Ala Arg Leu Gln		80
	85	90
Gly Lys Pro Pro Thr Lys Lys Ala Lys Val Leu Gln Lys Gln Pro Leu		95
	100	105
		110

Val	Ala	Lys	Leu	Ala	Ala	Tyr	Ala	Gln	Tyr	Gln	Ala	Thr	Leu	Gln	Asn
115				120				125							
Gln	Ala	Lys	Thr	Lys	Ala	Ala	Val	Ser	Met	Glu	Gly	Phe	Ser	Trp	Gly
130				135				140							
Asn	Tyr	Ile	Asn	Ser	Asn	Ser	Phe	Ile	Ala	Ala	Pro	Val	Thr	Cys	Phe
145				150				155				160			
Lys	His	Ala	Pro	Met	Gly	Thr	Cys	Trp	Gly	Asp	Ile	Ser	Glu	Asn	Val
				165				170				175			
Arg	Val	Glu	Val	Pro	Asn	Thr	Asp	Cys	Ser	Leu	Pro	Thr	Lys	Val	Phe
				180				185				190			
Trp	Ile	Ala	Gly	Ile	Val	Lys	Leu	Ala	Gly	Tyr	Asn	Ala	Leu	Leu	Arg
195				200				205							
Tyr	Glu	Gly	Phe	Glu	Asn	Asp	Ser	Gly	Leu	Asp	Phe	Trp	Cys	Asn	Ile
210				215				220							
Cys	Gly	Ser	Asp	Ile	His	Pro	Val	Gly	Trp	Cys	Ala	Ala	Ser	Gly	Lys
225				230				235				240			
Pro	Leu	Val	Pro	Pro	Arg	Thr	Ile	Gln	His	Lys	Tyr	Thr	Asn	Trp	Lys
				245				250				255			
Ala	Phe	Leu	Val	Lys	Arg	Leu	Thr	Gly	Ala	Lys	Thr	Leu	Pro	Pro	Asp
260				265				270							
Phe	Ser	Gln	Lys	Val	Ser	Glu	Ser	Met	Gln	Tyr	Pro	Phe	Lys	Pro	Cys
275				280				285							
Met	Arg	Val	Glu	Val	Val	Asp	Lys	Arg	His	Leu	Cys	Arg	Thr	Arg	Val
290				295				300							
Ala	Val	Val	Glu	Ser	Val	Ile	Gly	Gly	Arg	Leu	Arg	Leu	Val	Tyr	Glu
305				310				315				320			
Glu	Ser	Glu	Asp	Arg	Thr	Asp	Asp	Phe	Trp	Cys	His	Met	His	Ser	Pro
				325				330				335			
Leu	Ile	His	His	Ile	Gly	Trp	Ser	Arg	Ser	Ile	Gly	His	Arg	Phe	Lys

340	345	350	
Arg Ser Asp Ile Thr Lys Lys Gln Asp Gly His Phe Asp Thr Pro Pro			
355	360	365	
His Leu Phe Ala Lys Val Lys Glu Val Asp Gln Ser Gly Glu Trp Phe			
370	375	380	
Lys Glu Gly Met Lys Leu Glu Ala Ile Asp Pro Leu Asn Leu Ser Thr			
385	390	395	400
Ile Cys Val Ala Thr Ile Arg Lys Val Thr Gln Asn Phe Leu Leu Asn			
405	410	415	
Gly Leu Thr Thr Ser Gly Lys Leu Ala Pro Leu Gln His Gln			
420	425	430	

&lt;210&gt; 3532

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3532

Met Val Glu Gly Arg Arg Ala Leu Leu Gly Ala Trp Glu Ala Gly Phe			
1	5	10	15
Arg Ala Ala Trp Ala Val Pro Pro Glu Gly Gln Asp Pro Thr Gly Gly			
20	25	30	
Ala Arg Ala Ala Thr Pro Gln Thr Asn Glu Phe Lys Gly Ala Thr Glu			
35	40	45	
Glu Ala Pro Ala Lys Glu Ser Pro His Thr Gly Glu Phe Lys Gly Ala			
50	55	60	
Ala Leu Val Ser Pro Ile Ser Lys Arg Met Leu Glu Arg Leu Ser Lys			
65	70	75	80

Phe Glu Val Gly Asp Ala Glu Asn Val Ala Ser Tyr Glu Leu Phe Gly  
                             85                            90                            95  
 Val Phe Leu Val Leu Leu Asp Val Thr Leu Val Leu Ala Asp Leu Ile  
                             100                            105                            110  
 Phe Thr Asp Ser Lys Leu Tyr Ile Pro Leu Glu Tyr Arg Ser Ile Ser  
                             115                            120                            125  
 Leu Ala Ile Ala Leu Phe Phe Leu Met Asp Val Leu Leu Arg Val Phe  
                             130                            135                            140  
 Val Glu Gly Phe  
 145

&lt;210&gt; 3533

&lt;211&gt; 199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3533

Met His Ala Cys Val Asn Thr Pro Gly Ser Tyr Arg Cys Thr Cys Pro  
           1                            5                            10                            15  
 Gly Gly Tyr Arg Thr Leu Ala Asp Gly Lys Ser Cys Glu Asp Val Asp  
                             20                            25                            30  
 Glu Cys Val Gly Leu Gln Pro Val Cys Pro Gln Gly Thr Thr Cys Ile  
                             35                            40                            45  
 Asn Thr Gly Gly Ser Phe Gln Cys Val Ser Pro Glu Cys Pro Glu Gly  
                             50                            55                            60  
 Ser Gly Asn Val Ser Tyr Val Lys Thr Ser Pro Phe Gln Cys Glu Arg  
                             65                            70                            75                            80  
 Asn Pro Cys Pro Met Asp Ser Arg Pro Cys Arg His Leu Pro Lys Thr

	85		90		95
Ile Ser Phe His Tyr Leu Ser Leu Pro Ser Asn Leu Lys Thr Pro Ile					
	100		105		110
Thr Leu Phe Arg Met Ala Thr Ala Ser Ala Pro Gly Arg Ala Gly Pro					
	115		120		125
Asn Ser Leu Arg Phe Gly Ile Val Gly Gly Asn Ser Arg Gly His Phe					
	130		135		140
Val Met Gln Arg Ser Asp Arg Gln Thr Gly Asp Leu Ile Leu Val Gln					
	145		150		155
Asn Leu Glu Gly Pro Gln Thr Leu Glu Val Asp Val Asp Met Ser Glu					
	165		170		175
Tyr Leu Asp Arg Ser Phe Gln Ala Asn His Val Ser Lys Val Thr Ile					
	180		185		190
Phe Val Ser Pro Tyr Asp Phe					
	195				

&lt;210&gt; 3534

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3534

Met Ile Leu Leu Glu Thr Arg Pro Ala Ser Thr Cys Pro Pro Trp Ser			
1	5	10	15
Gln Glu Ala Leu Glu Glu Lys Cys Ser Ile Leu Asp Asp Phe Pro Arg			
20	25	30	
Pro Leu Cys Cys Gln Gln Trp Arg His Pro Glu Leu Ala Glu Val Gly			
35	40	45	

Thr Ser Tyr Leu Lys Pro Asn Lys Cys Ser Pro Ser Gly Pro Asn Pro  
 50 55 60  
 Gln Cys Leu Ala Leu Cys Leu Leu Ala Leu Ala Leu Thr Ile Gly Ala  
 65 70 75 80  
 Ile His Thr Ala Ile Leu Glu Gly Arg Gly His Ser Pro Ser Ser Lys  
 85 90 95  
 Lys Glu Asp Gly  
 100

<210> 3535

<211> 176

<212> PRT

<213> Homo sapiens

<400> 3535

Met Ser Met Met Ser Ser Arg Lys Thr Met Lys Ala Thr Ile Pro Pro  
 1 5 10 15  
 Met Met Ala Cys Pro Ala His Leu Arg Ile Phe Leu Glu Glu Asp Ala  
 20 25 30  
 Val Ala Pro Ser Thr Thr Arg Arg Gln His Trp Lys Gln Thr Gln Ser  
 35 40 45  
 Asn Arg Thr Pro Ser Ala Trp Leu Leu Ser Thr Lys Gln Arg Gly Asp  
 50 55 60  
 Gln Gln Asp Thr Asn His Lys Gly Thr Arg Thr Phe Ser His Cys Gln  
 65 70 75 80  
 Ser Ser Ser Asp Trp Ser Gly Glu Ile Trp Gly Gln Arg Pro Glu Leu  
 85 90 95  
 Ser Ala Leu Ser Leu Leu Leu Ala Ser Tyr Asn Ser Leu Val Val Leu

100	105	110	
Arg Gln Leu Pro His Ala Glu Val Cys Pro Trp Ser Gly Asn His Pro			
115	120	125	
Ser Arg His Ser Asp Pro Lys Asn Ser Asp Leu Leu Ser Leu Gly Gly			
130	135	140	
Leu Ala Leu Ile Pro Ser Thr Val Leu Met Ser Val Ser Ser Lys Gly			
145	150	155	160
Ala Ser Asp Val Ser Pro Thr Met His Phe Pro Tyr Ser Glu Lys Arg			
165	170	175	

&lt;210&gt; 3536

&lt;211&gt; 203

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3536

Met Asp Ser Ala Pro Ala Gly Ser Phe Ser Ala Ser Ser Phe Phe Asp			
1	5	10	15
Leu Ser Val Thr Val Thr Arg Ala Lys Asn Ser Arg Gly Pro Ser Ser			
20	25	30	
Ser Pro Ser Glu Leu Gln Gly Ala His Cys Leu Thr Ser Ser Leu Ala			
35	40	45	
Ala Ala Cys Ser Val Ala Tyr Ser Ala Leu Trp Ser Ser Ser Pro Leu			
50	55	60	
Arg Ser Pro Trp Ser Ile Ser Ser Ile Thr Met Pro Arg Leu Ser Ser			
65	70	75	80
Glu Glu Ser Ser Ala Ser Leu Leu Ala Gly Ala Asp Gly Arg Pro Pro			
85	90	95	

Arg Leu Leu Phe Leu Pro Phe Trp Val Asn Leu Leu Arg Leu Val Leu  
 100 105 110  
 Phe Leu Arg Pro Arg Arg Pro Leu Leu Gly Phe Leu Ala Ala Pro Arg  
 115 120 125  
 Ser Glu Pro Ala Cys Pro Val Thr Ser Pro Glu Ser Trp Ala Cys Val  
 130 135 140  
 Ser Glu Ala Gly Gly Val Gly Ala Ser Pro Gly Val Pro Ala Ser Ala  
 145 150 155 160  
 Ala Cys Val Gly Pro Ser Ser Ser Ser Arg Arg Leu Ile Cys Leu Arg  
 165 170 175  
 Thr Leu Val Ser Cys Ala Arg Ser Phe His Arg Thr Leu Gln Thr Pro  
 180 185 190  
 Ser Leu Pro Gly Ile Ser Leu Gly Met Ala Ala  
 195 200

&lt;210&gt; 3537

&lt;211&gt; 536

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3537

Met Ser Ala Arg Val Pro Val Ser Phe Cys Ile Tyr Ile His Ala Cys  
 1 5 10 15  
 Val Pro Val Phe Leu Arg Val Leu Val Cys Ala Arg Val His Leu Cys  
 20 25 30  
 Val Cys Gln Ser Met Cys Ala Cys Val Cys Leu Ser Ala Tyr Pro Cys  
 35 40 45  
 Val His Val Cys Val Cys Gln Arg Ile Arg Val Cys Met Cys Val Ser